

Supplementary Material

A modified synthesis of (Z)-pyrethrolone

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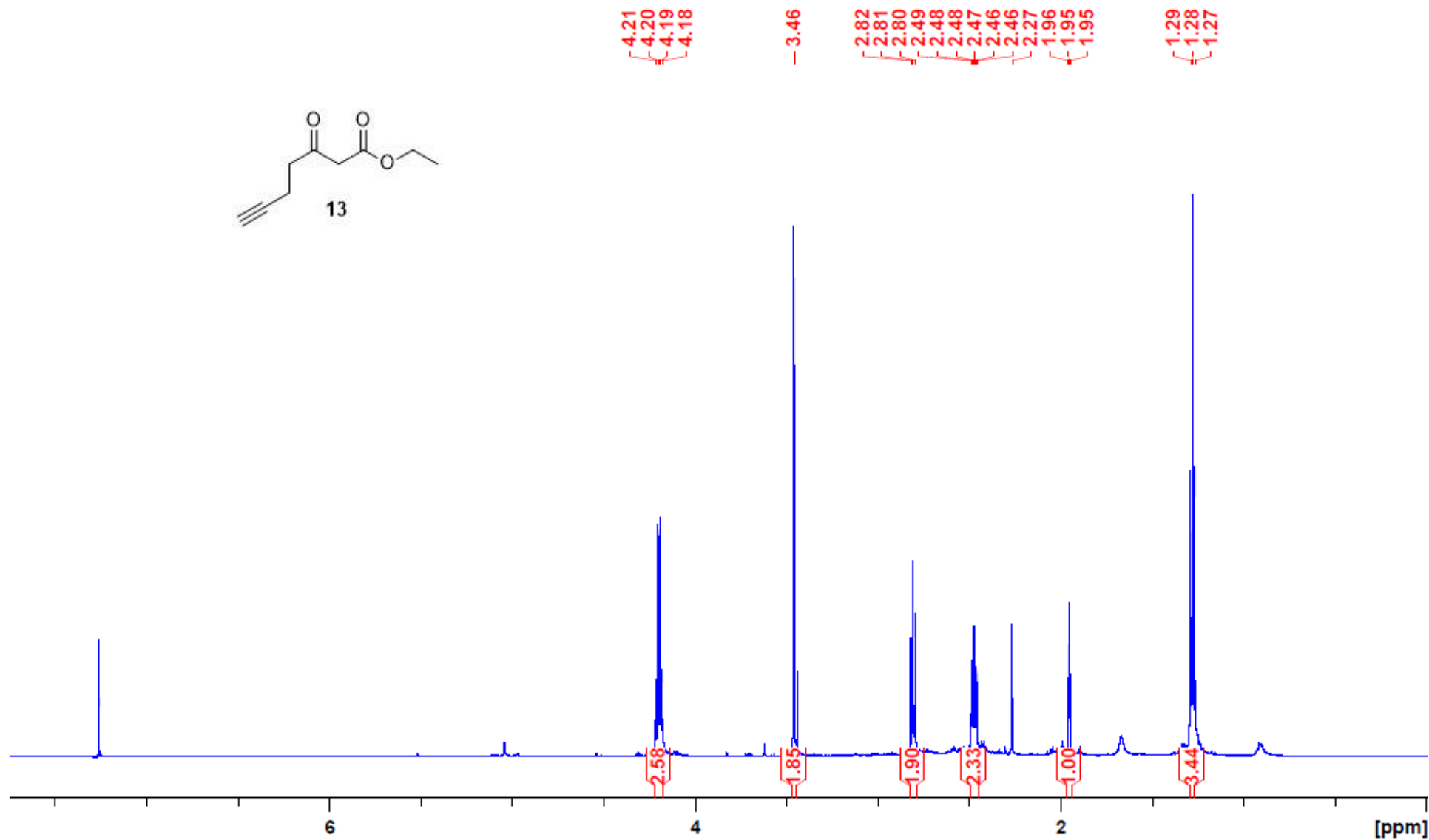
^bFlinders Institute for Nanoscale Science and Technology, Flinders University, Adelaide, South Australia 5042, Australia

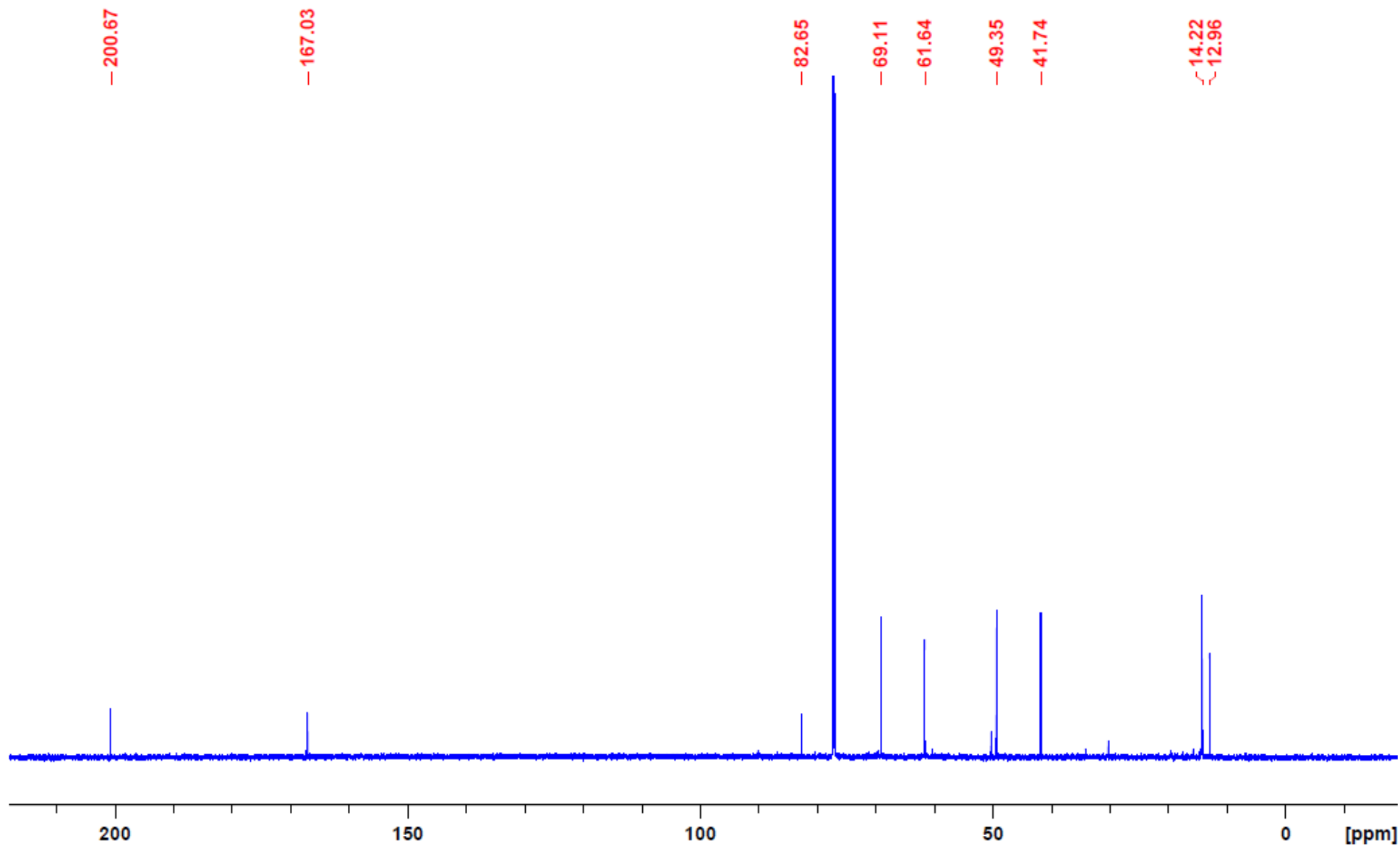
^cCSIRO Manufacturing, Research Way, Clayton, Victoria 3168, Australia

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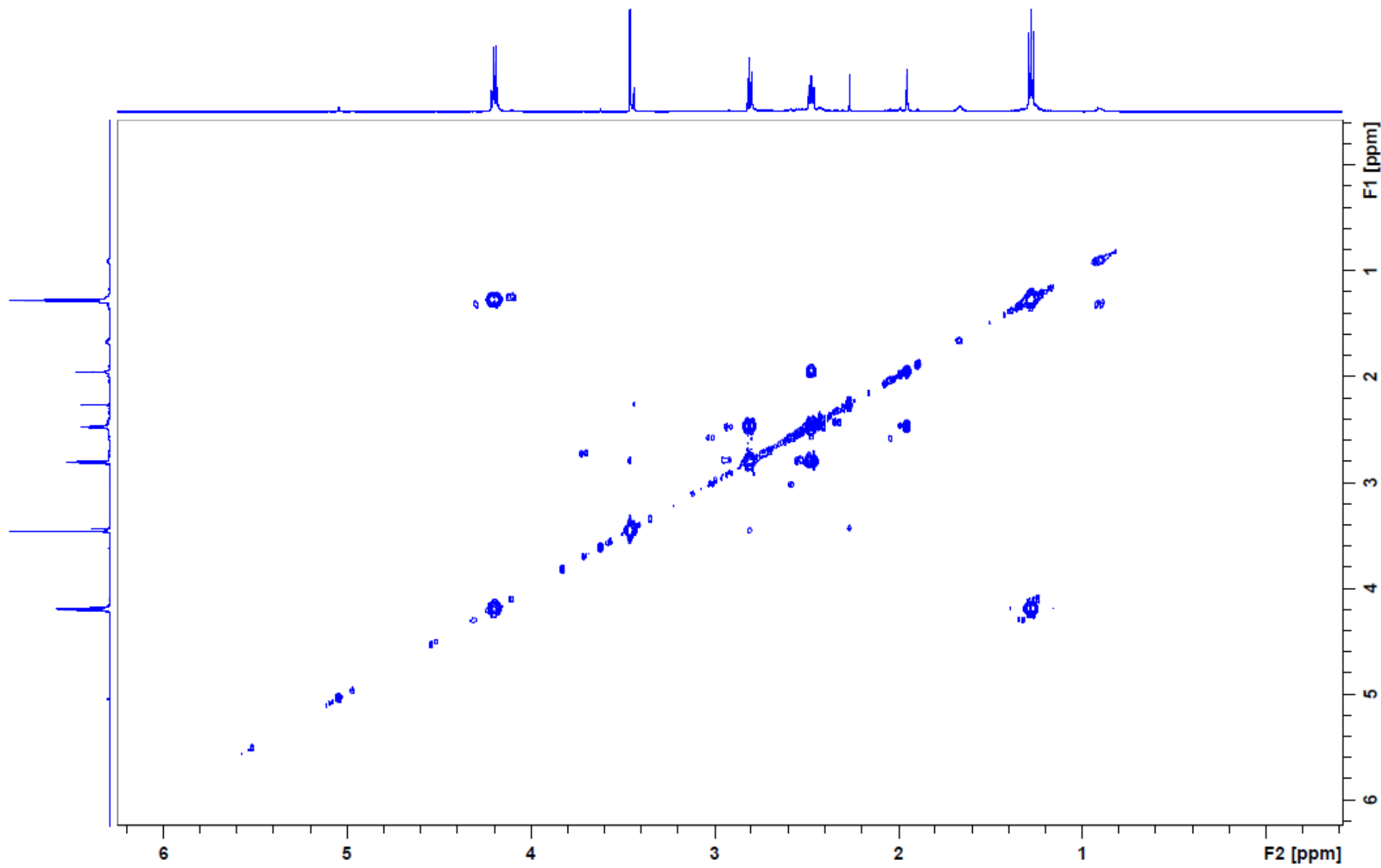
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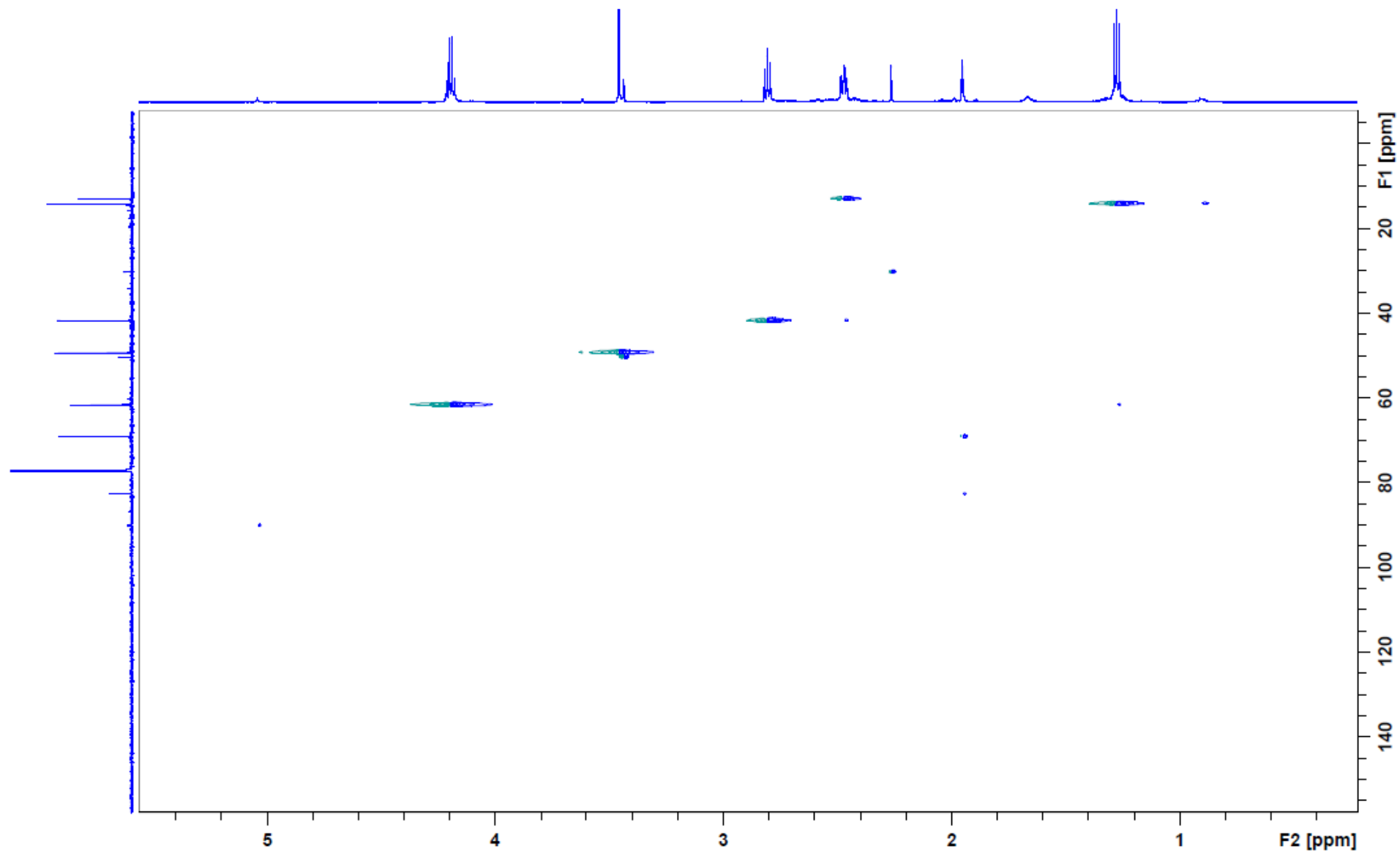
¹H NMR spectrum **13** (600 MHz, CDCl₃)

^{13}C NMR spectrum **13** (150 MHz, CDCl_3)

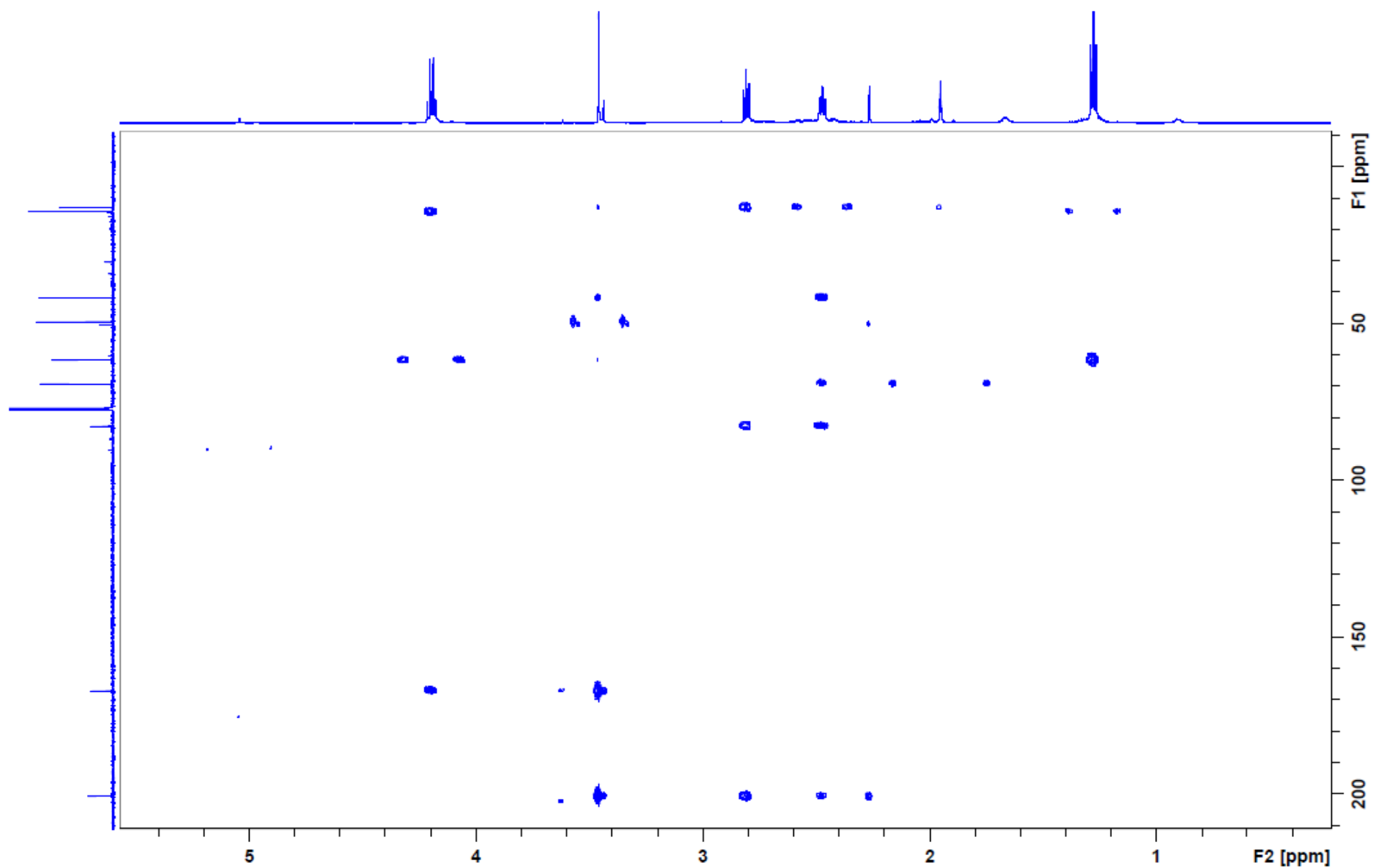
COSY spectrum 13



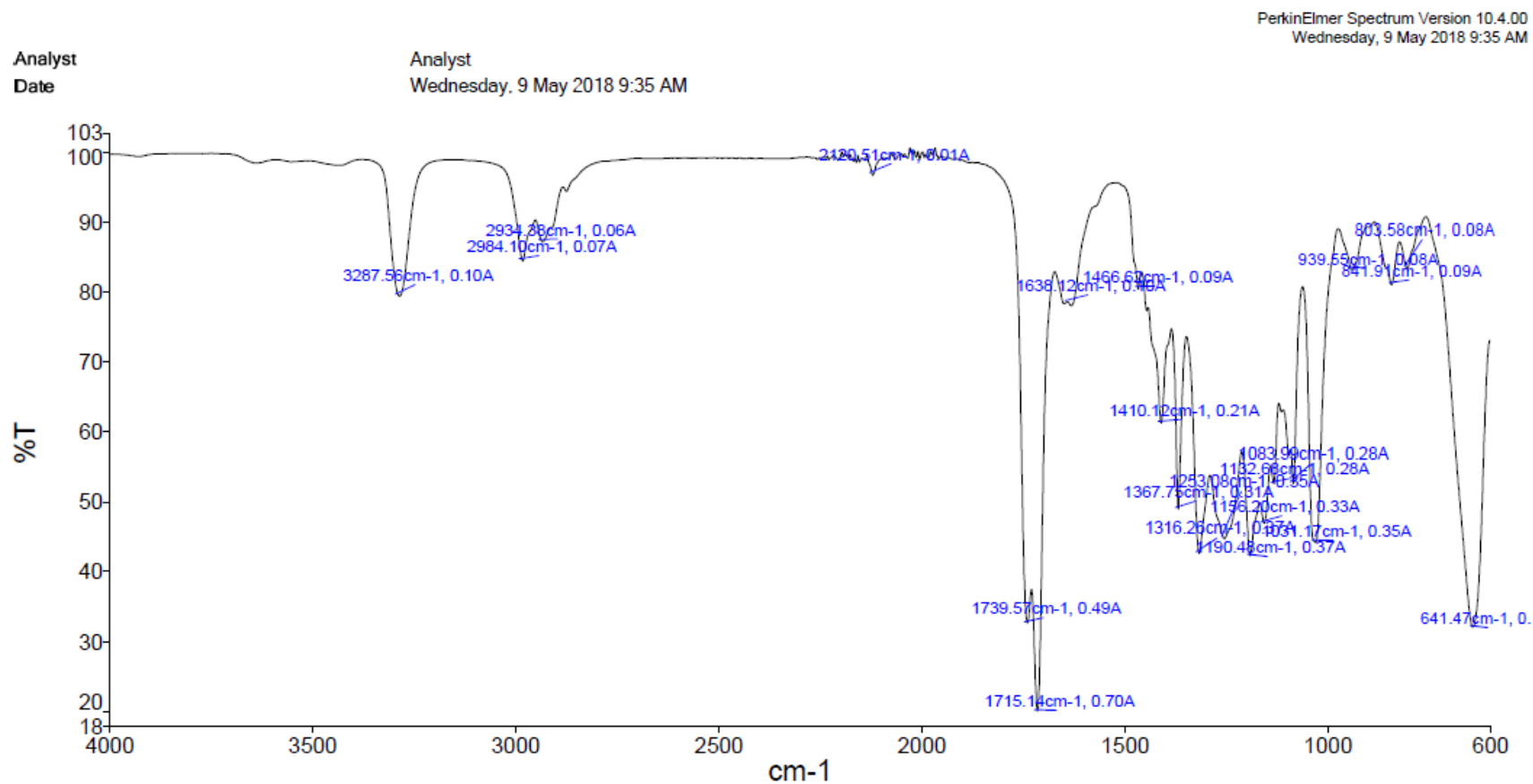
HSQC spectrum 13

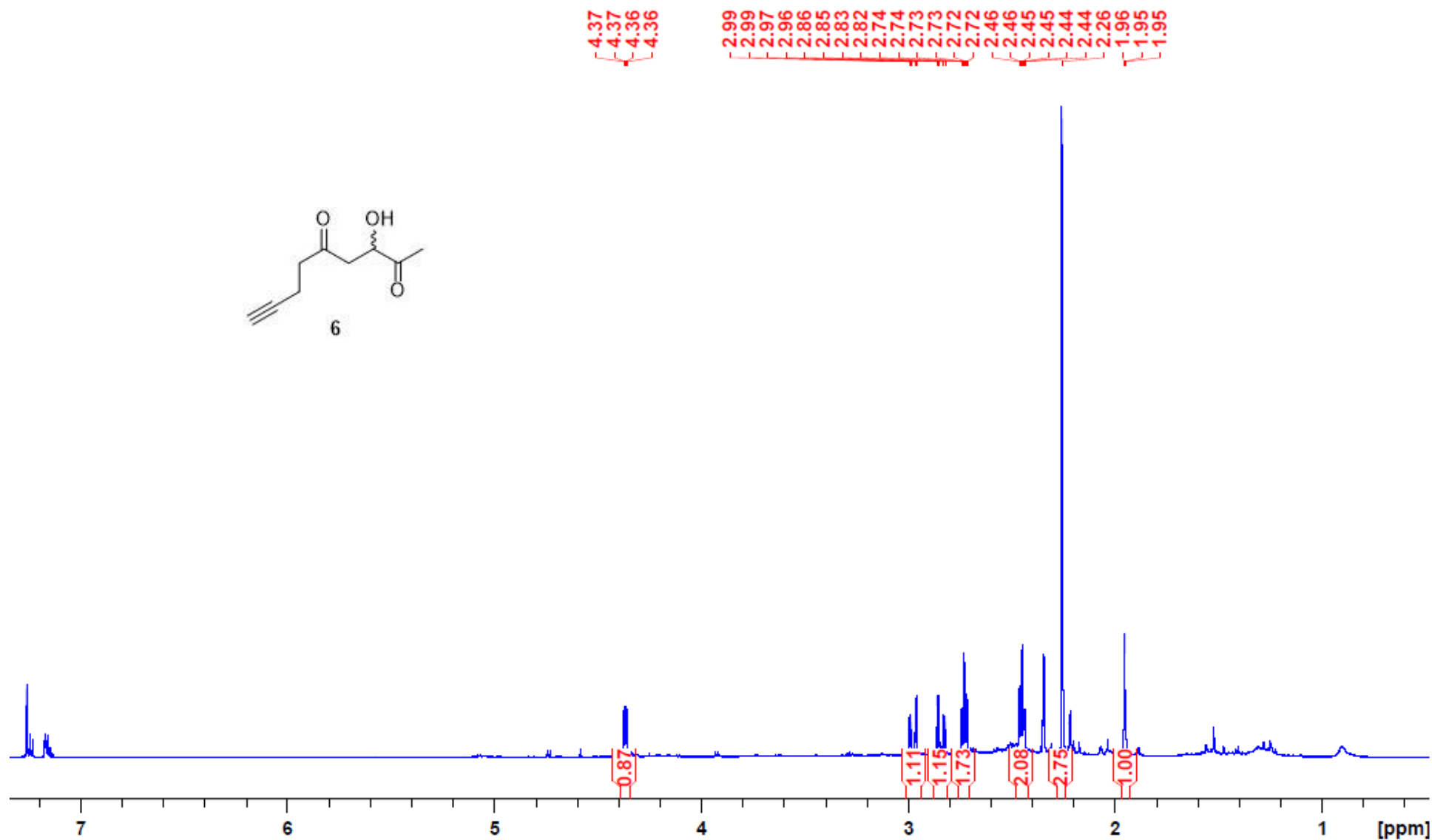


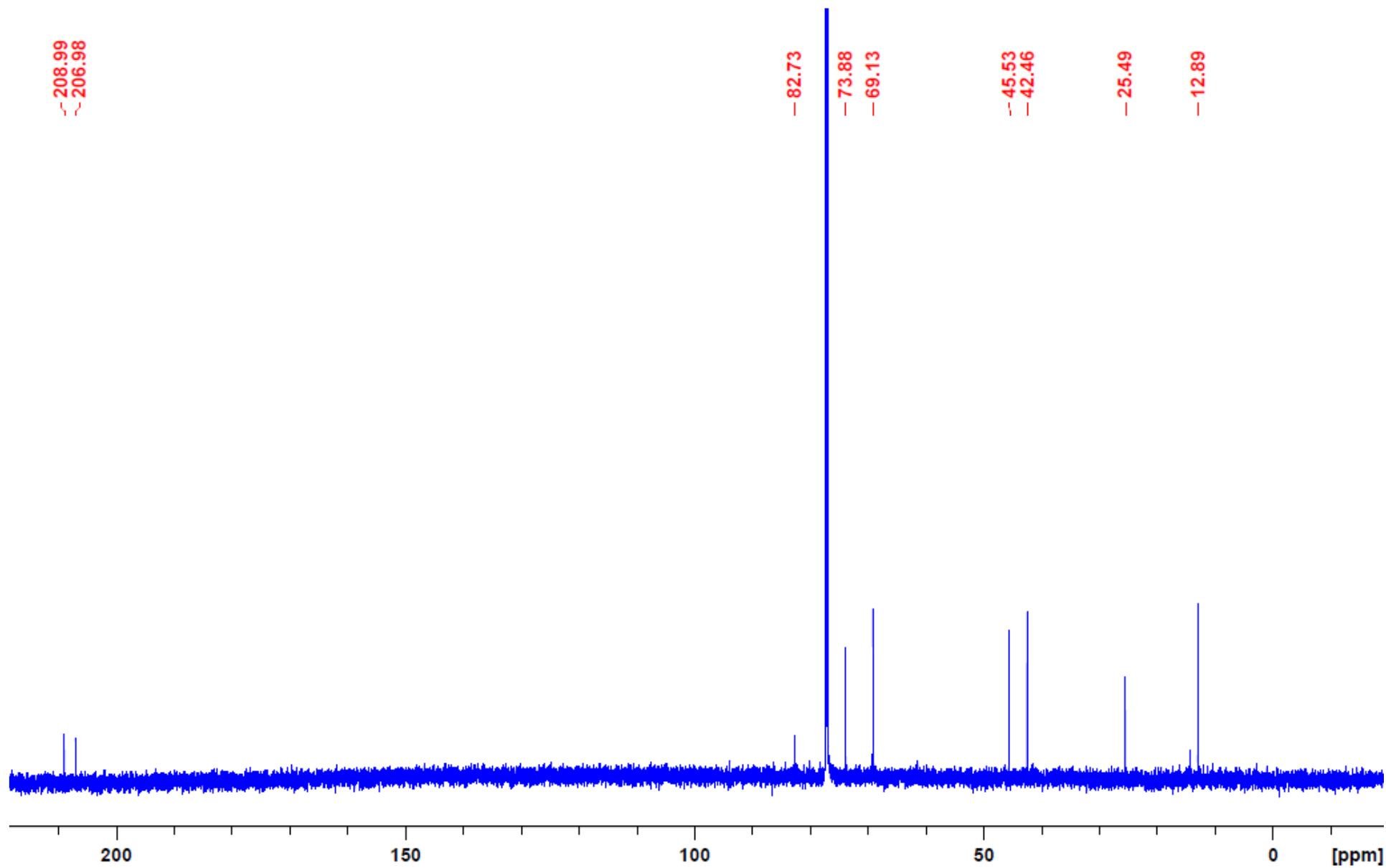
HMBC spectrum 13



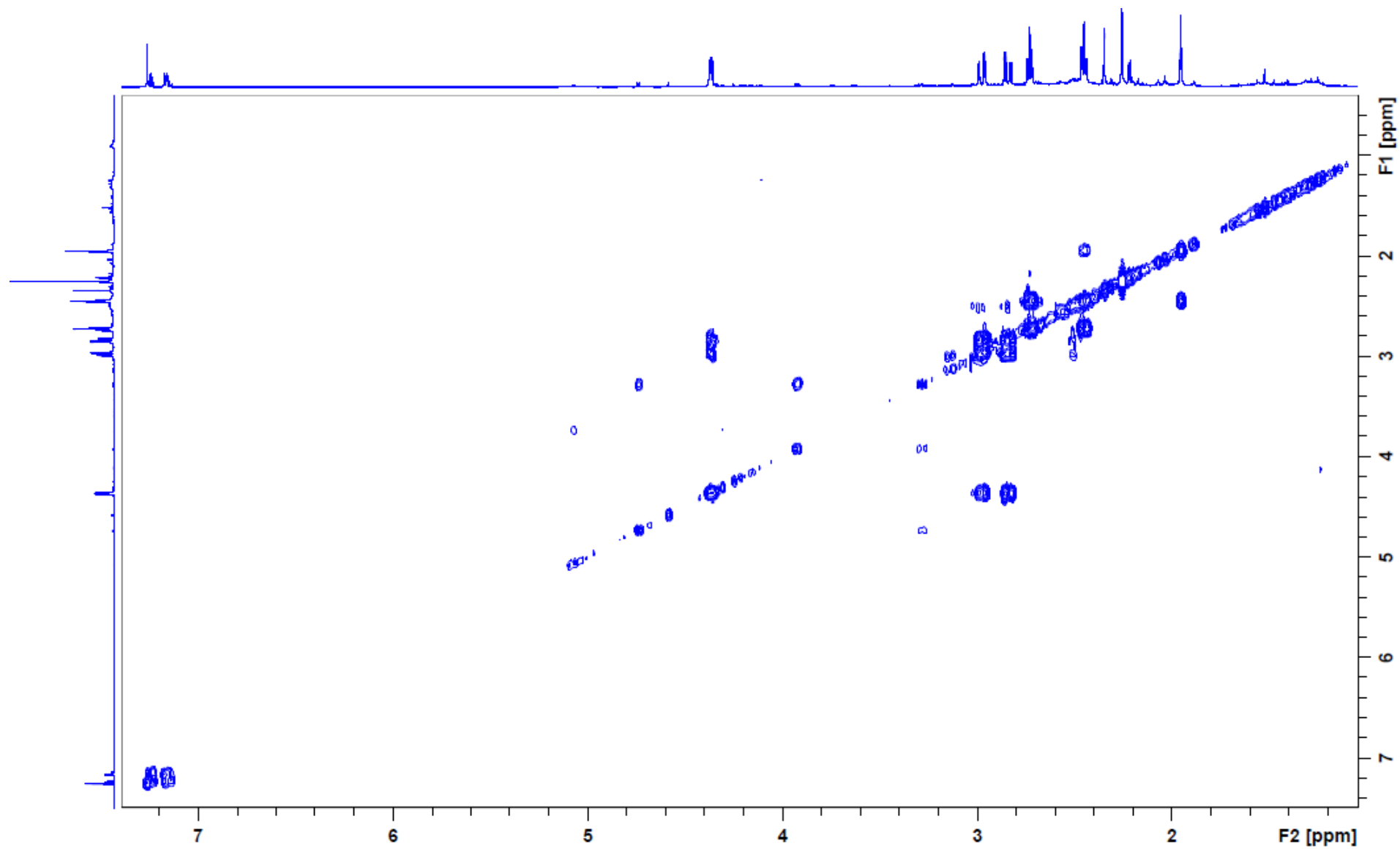
FTIR spectrum 13



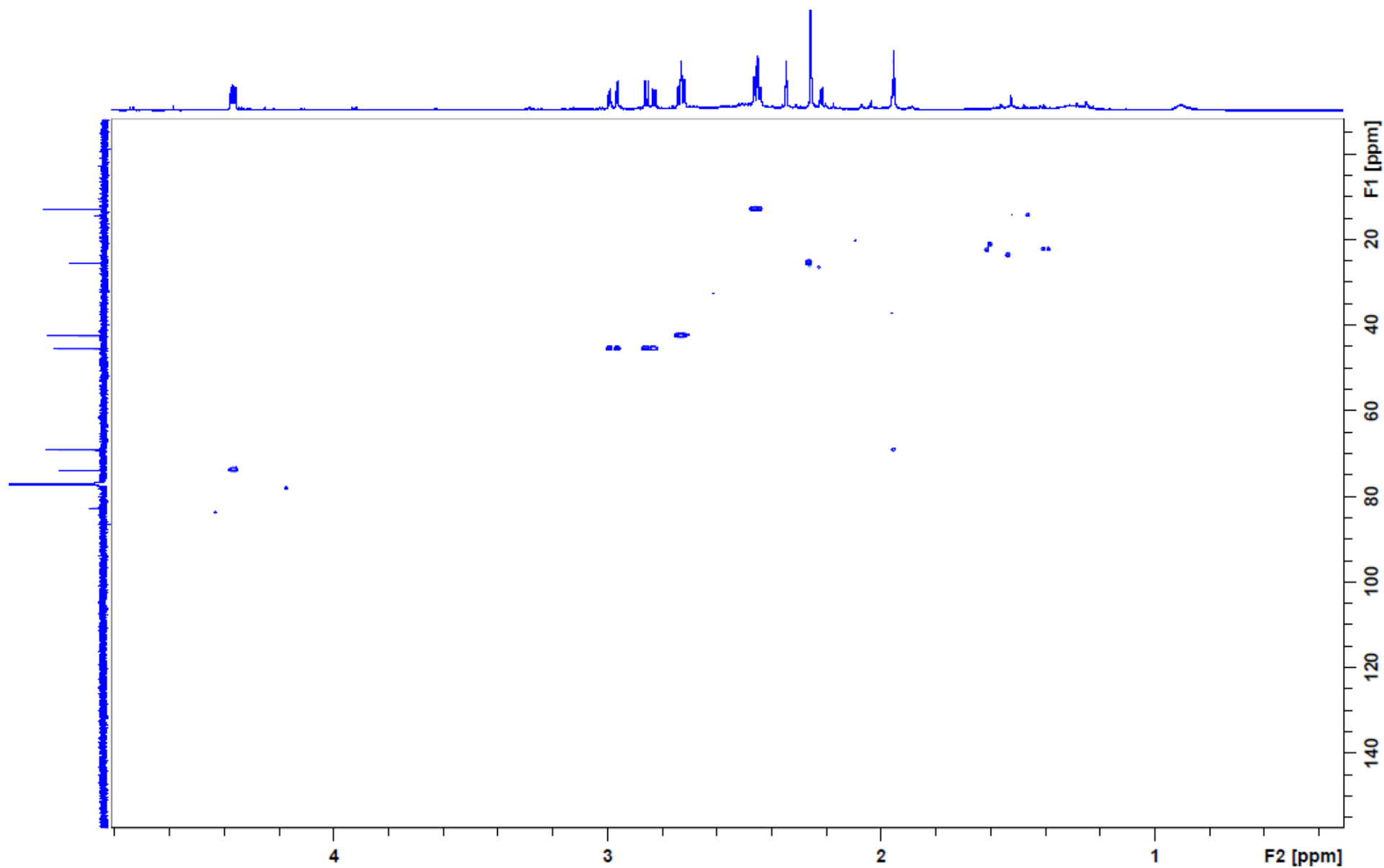
^1H NMR spectrum **6** (600 MHz, CDCl_3)

^{13}C NMR spectrum **6** (150 MHz, CDCl_3)

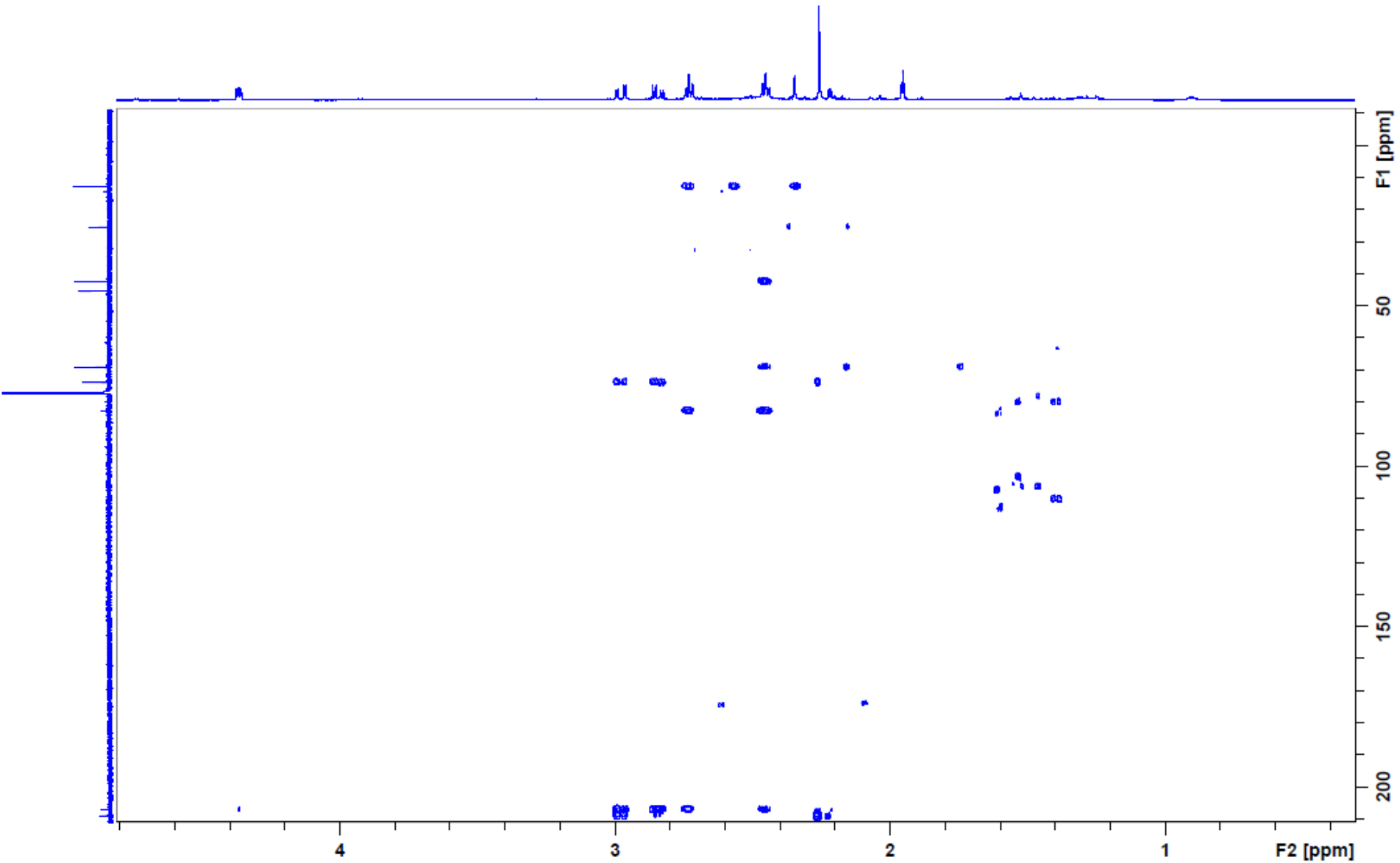
COSY spectrum 6



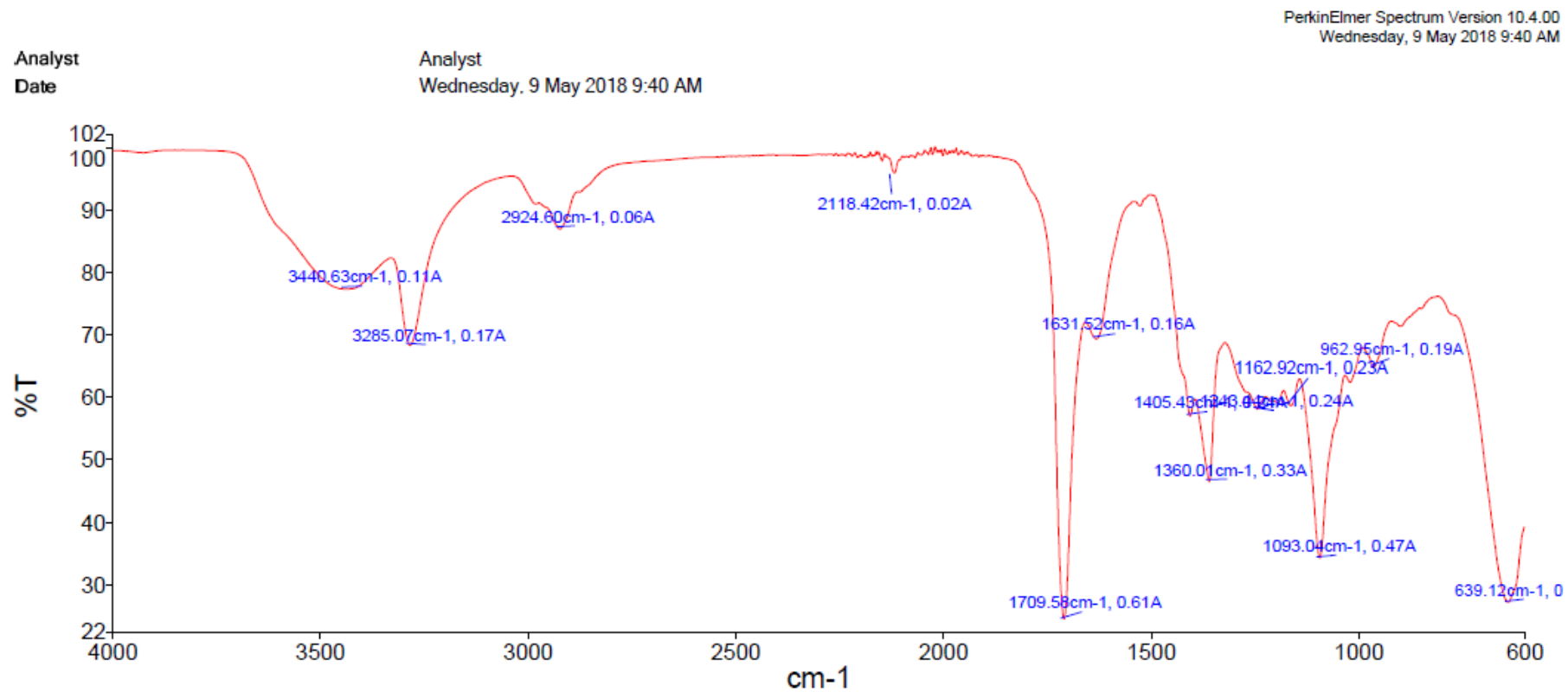
HSQC spectrum 6

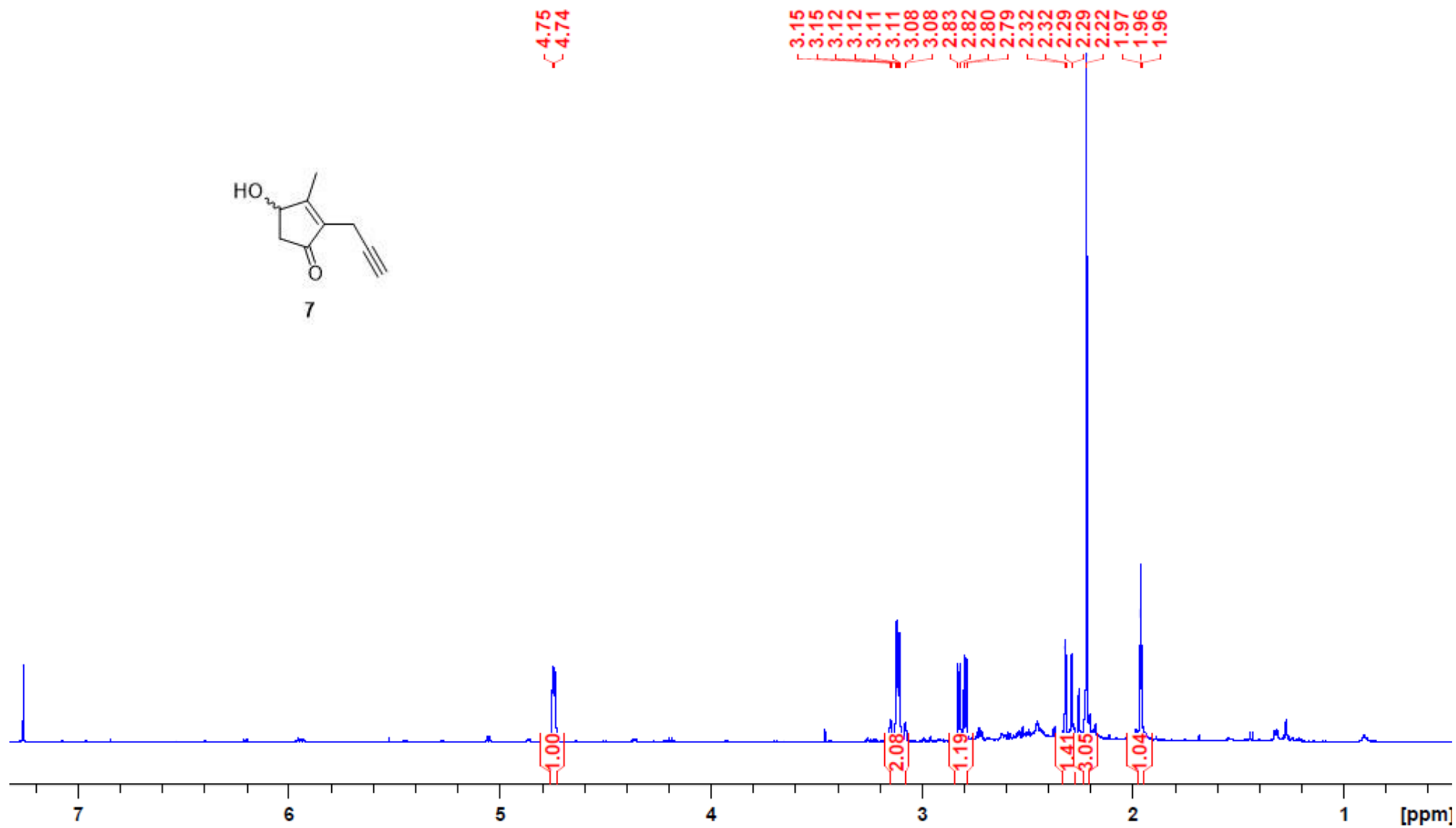


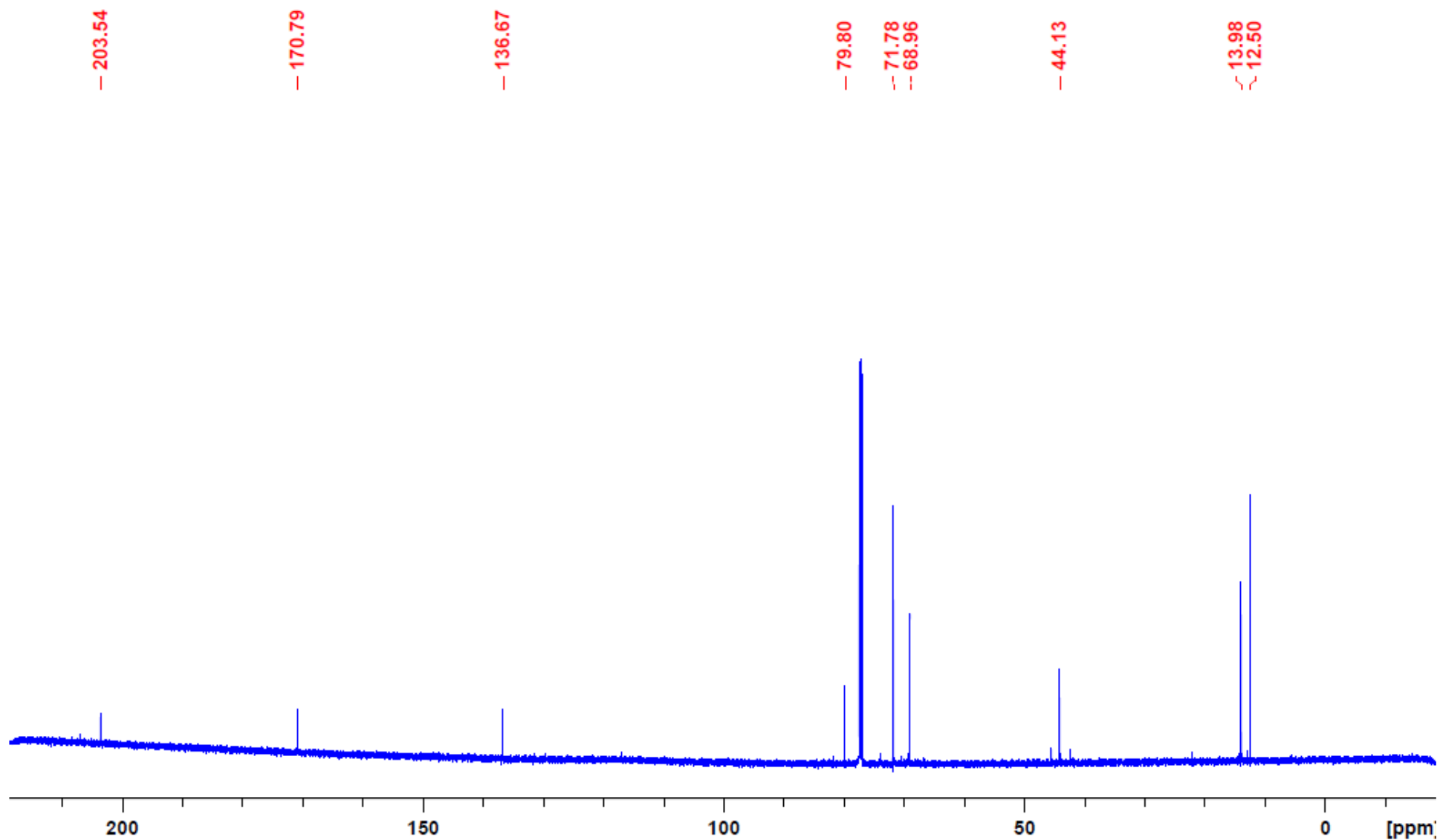
HMBC spectrum 6



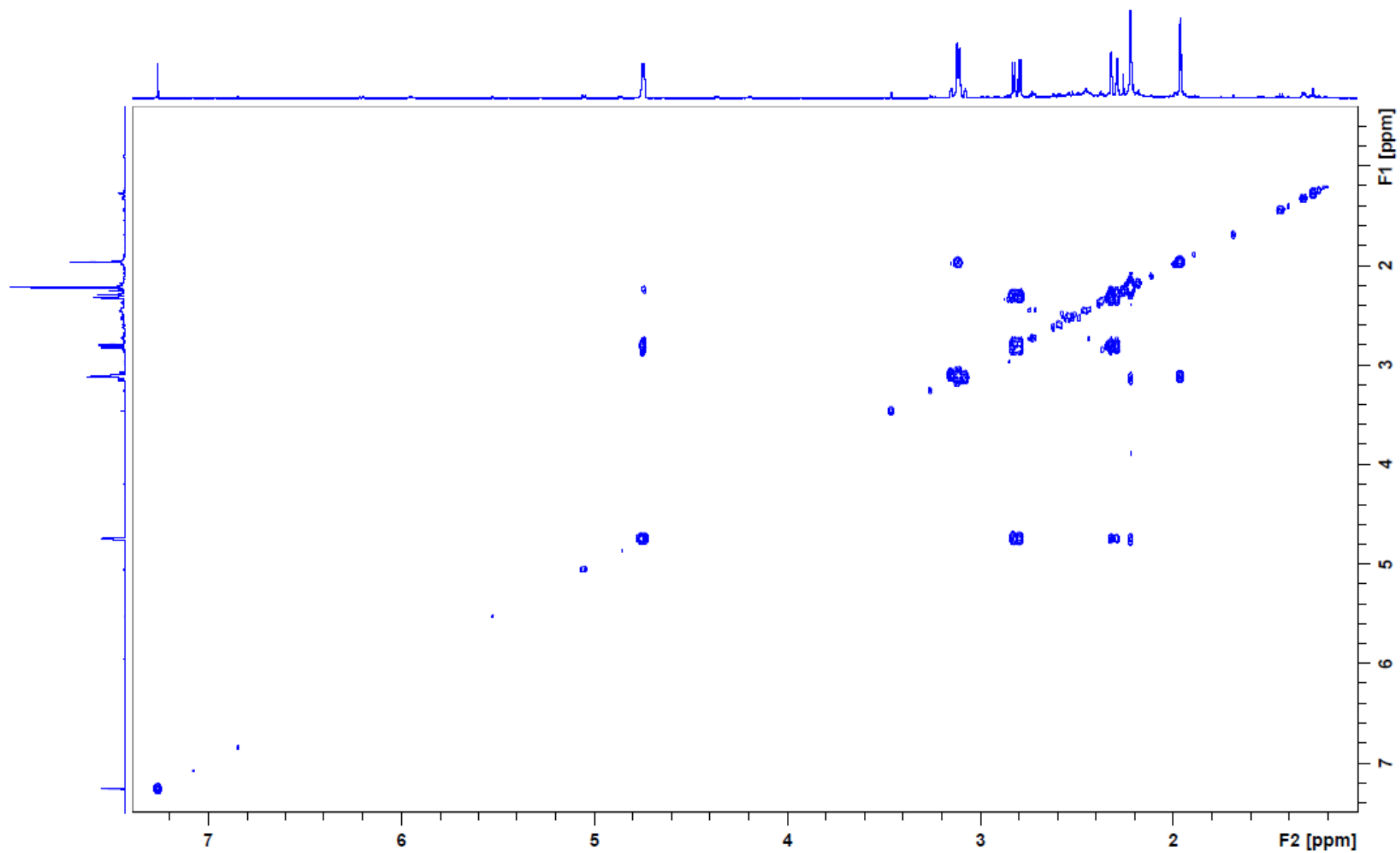
FTIR spectrum 6



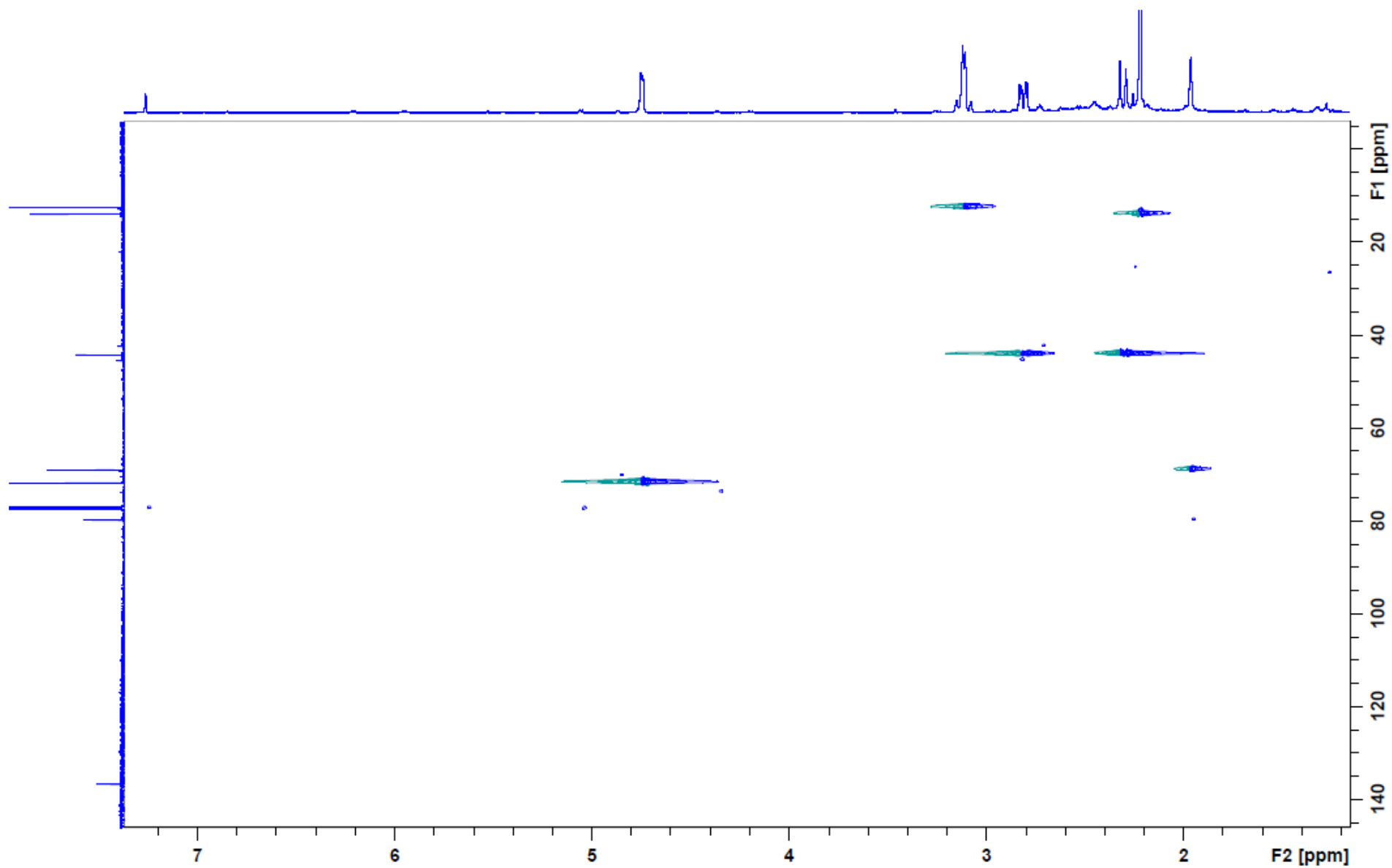
^1H NMR spectrum **7** (600 MHz, CDCl_3)

^{13}C NMR spectrum 7 (150 MHz, CDCl_3)

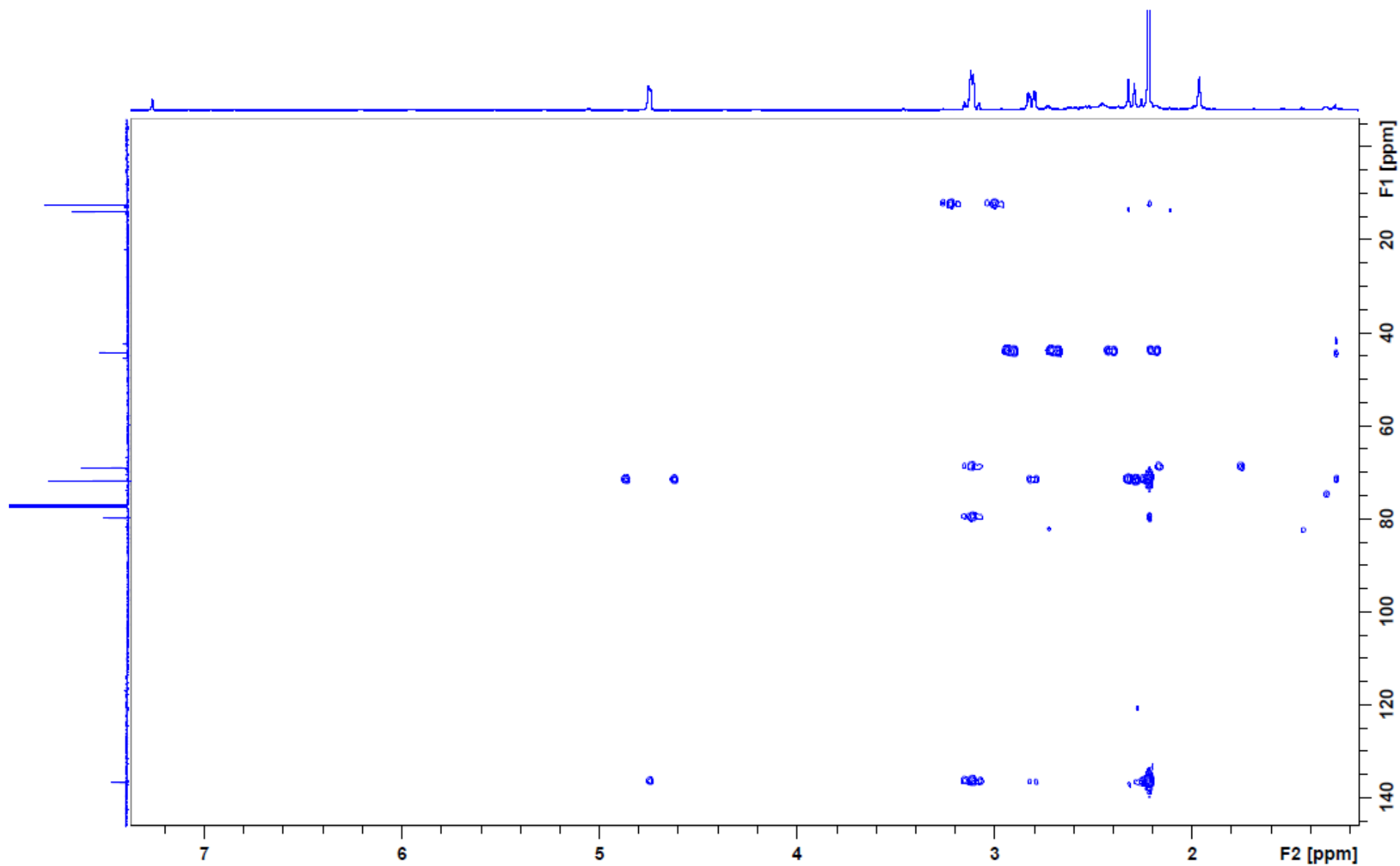
COSY spectrum 7



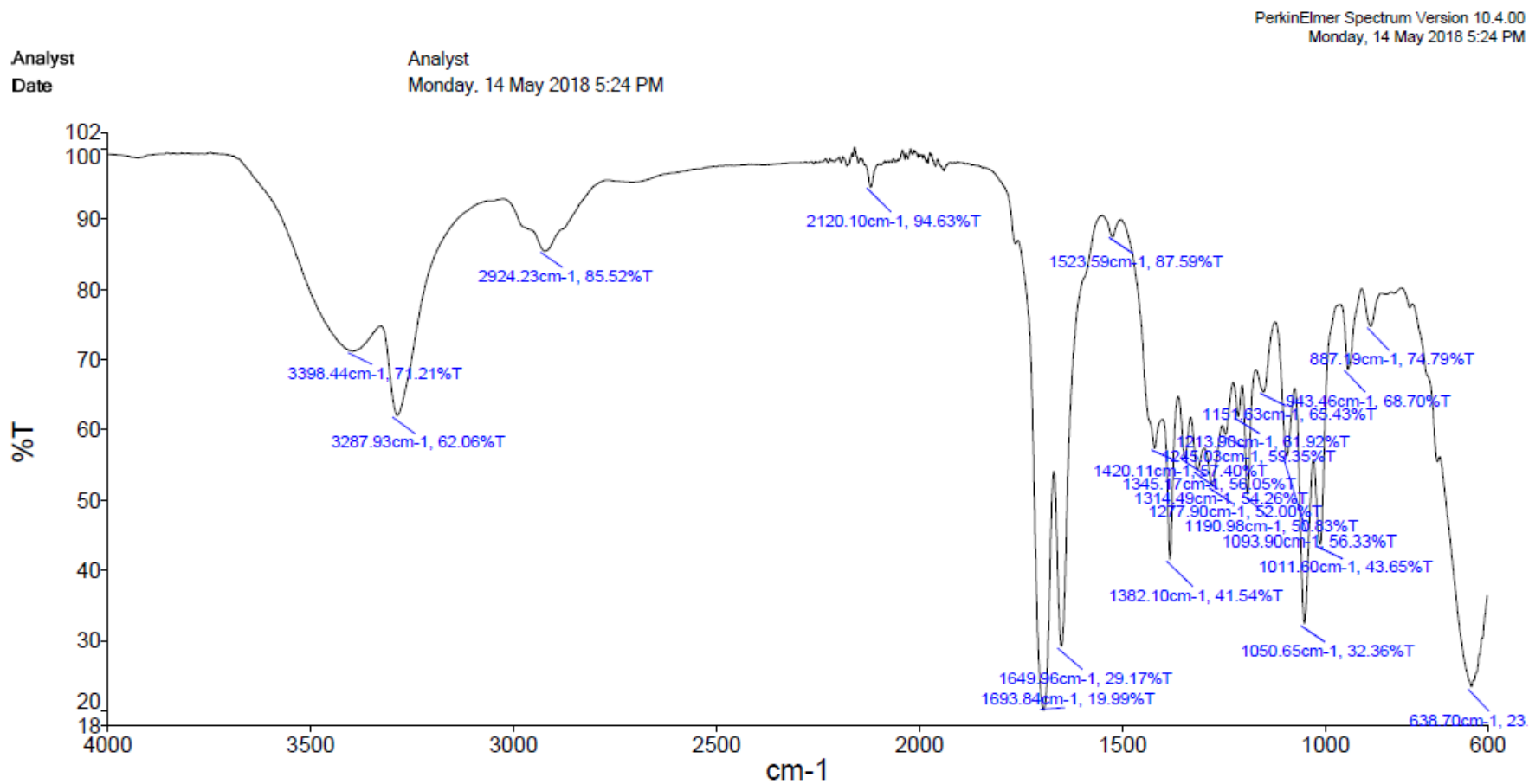
HSQC spectrum 7

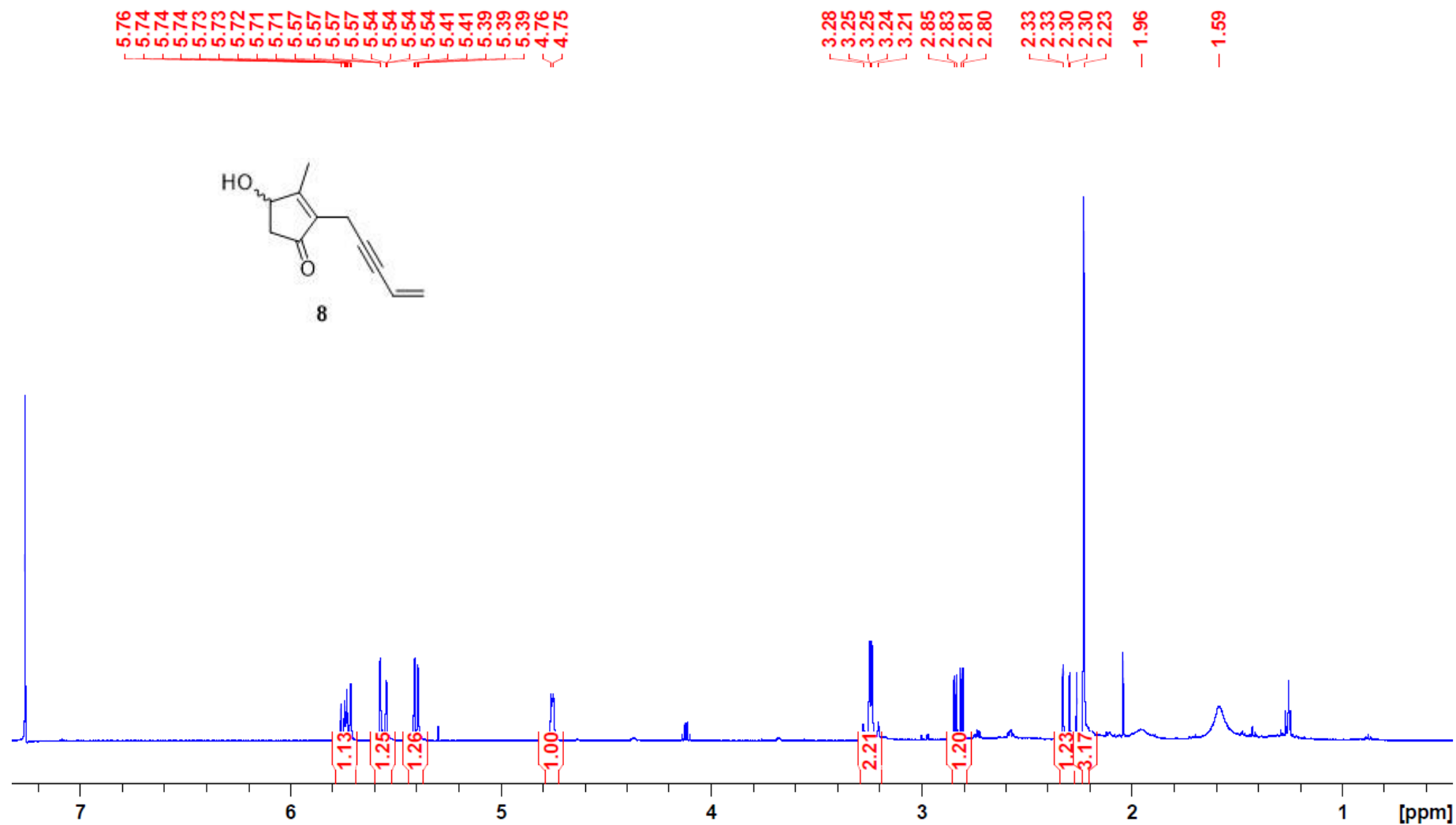


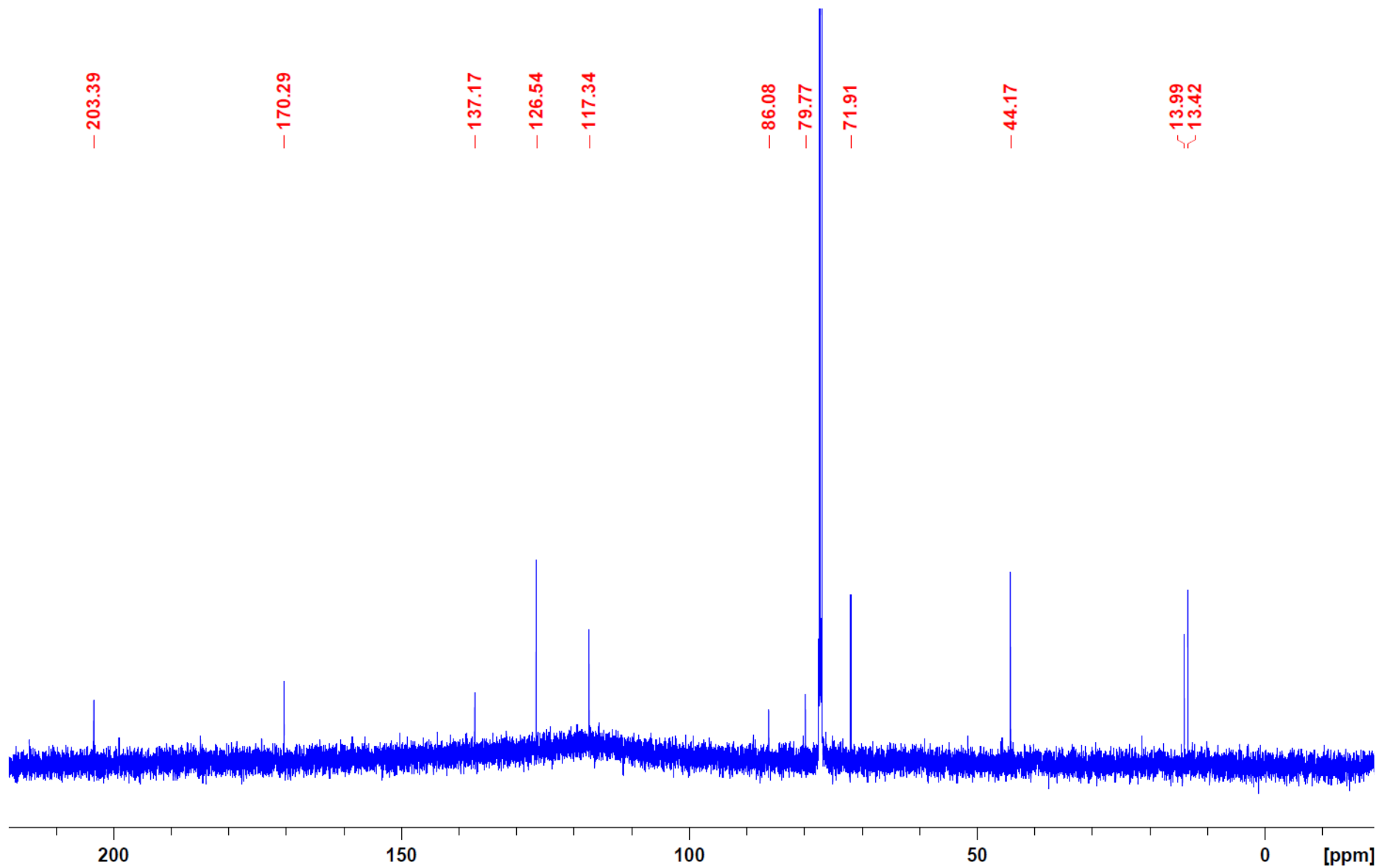
HMBC spectrum 7



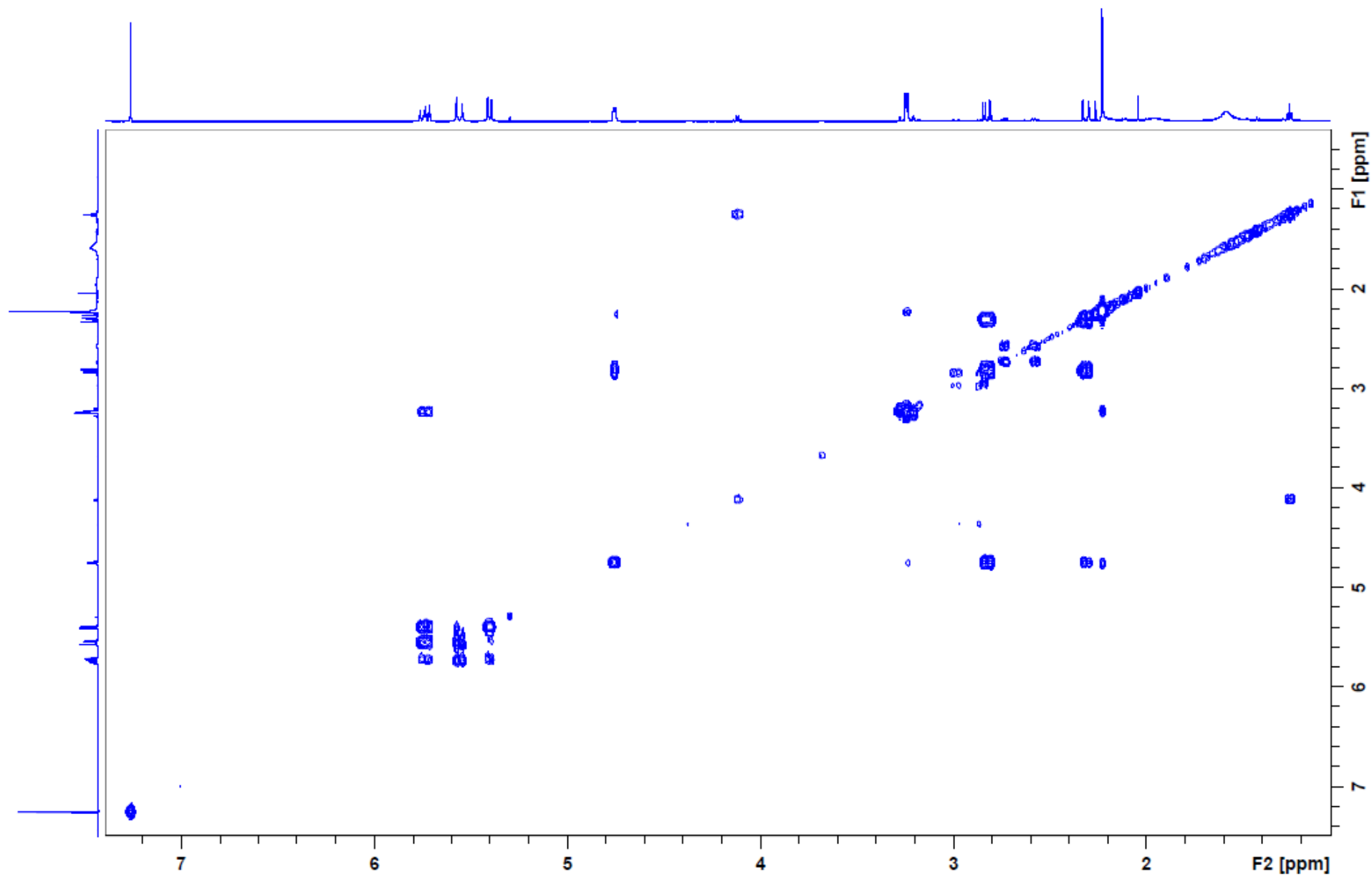
FTIR spectrum 7



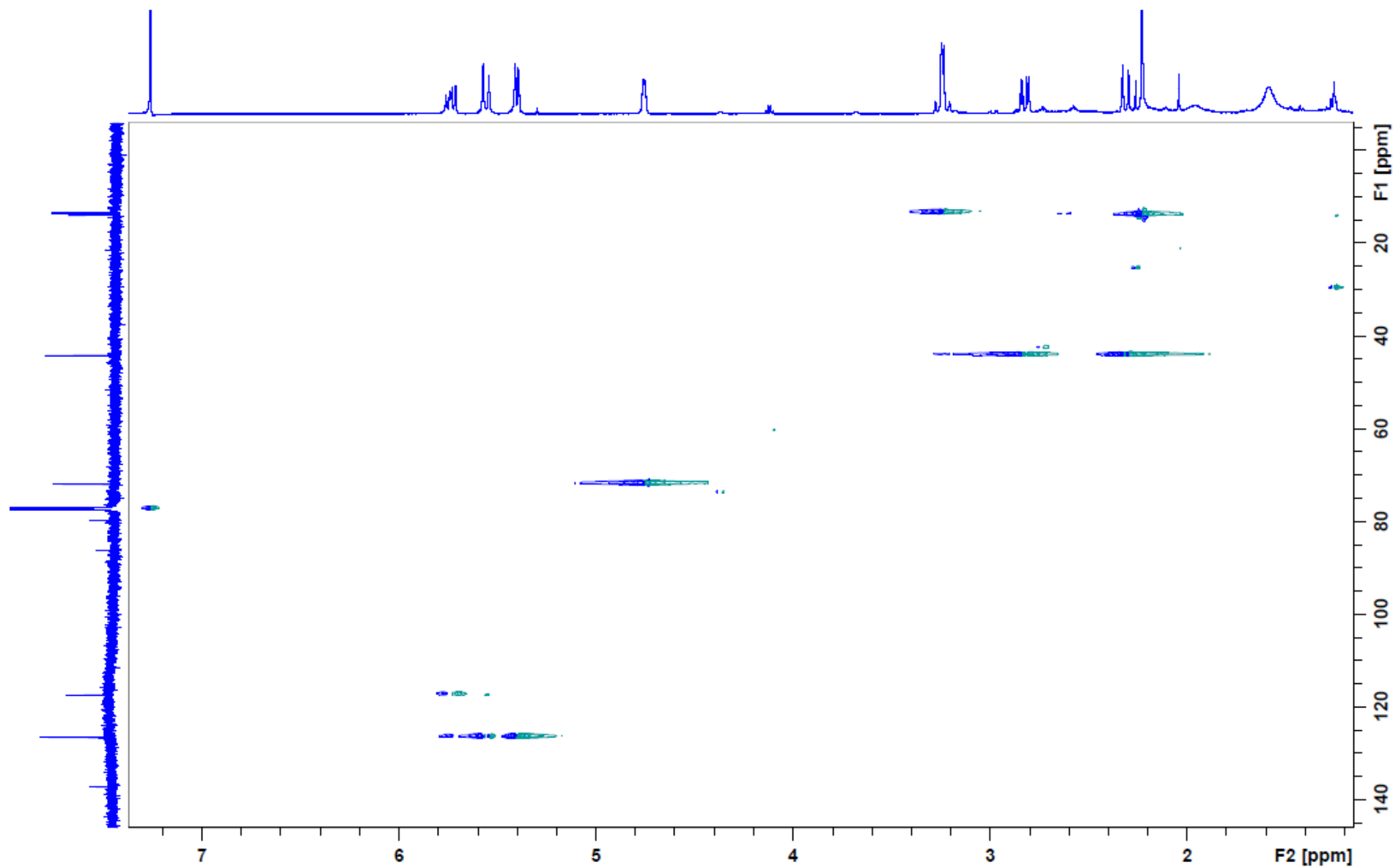
^1H NMR spectrum **8** (600 MHz, CDCl_3)

^{13}C NMR spectrum **8** (150 MHz, CDCl_3)

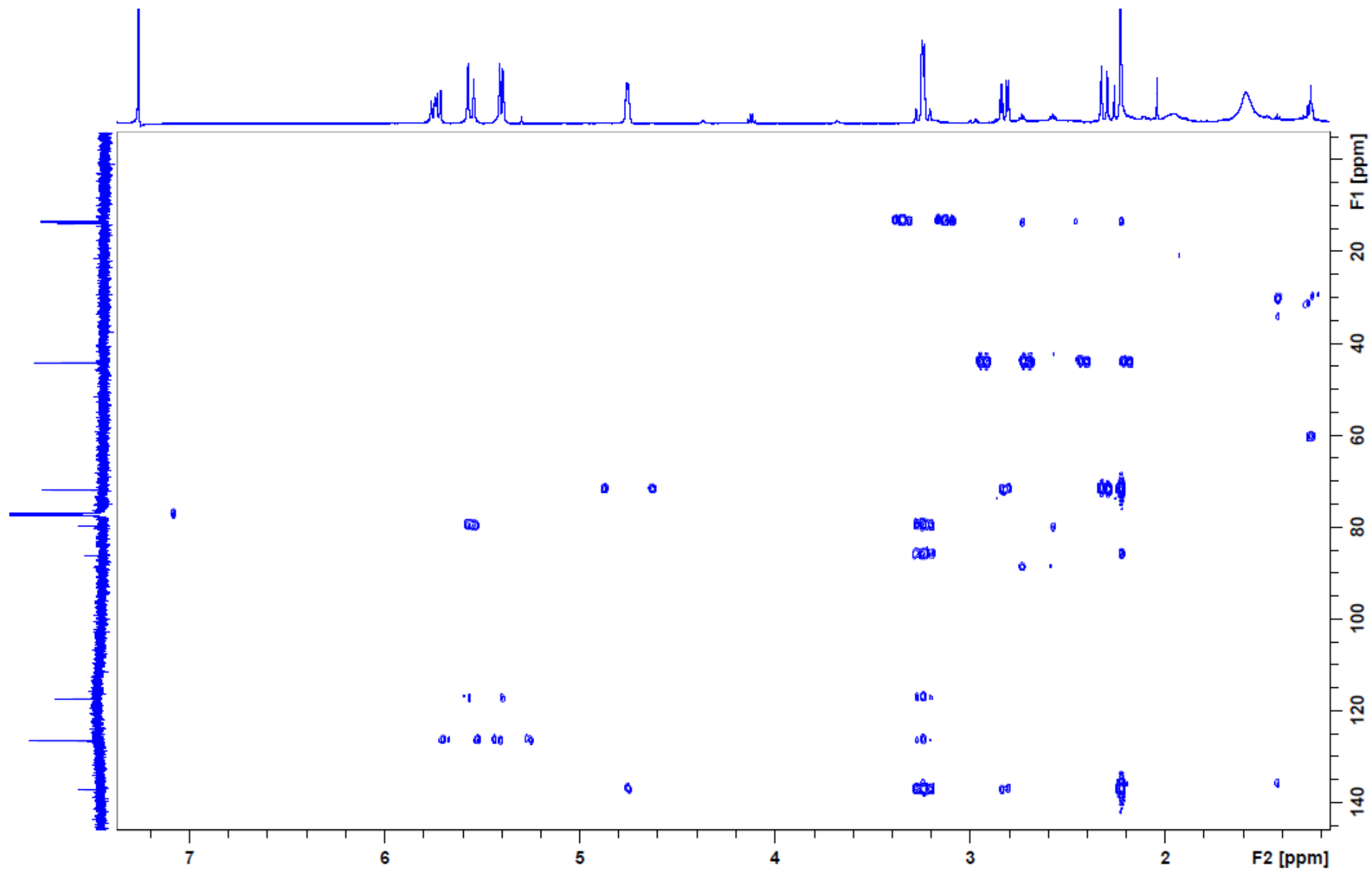
COSY spectrum 8



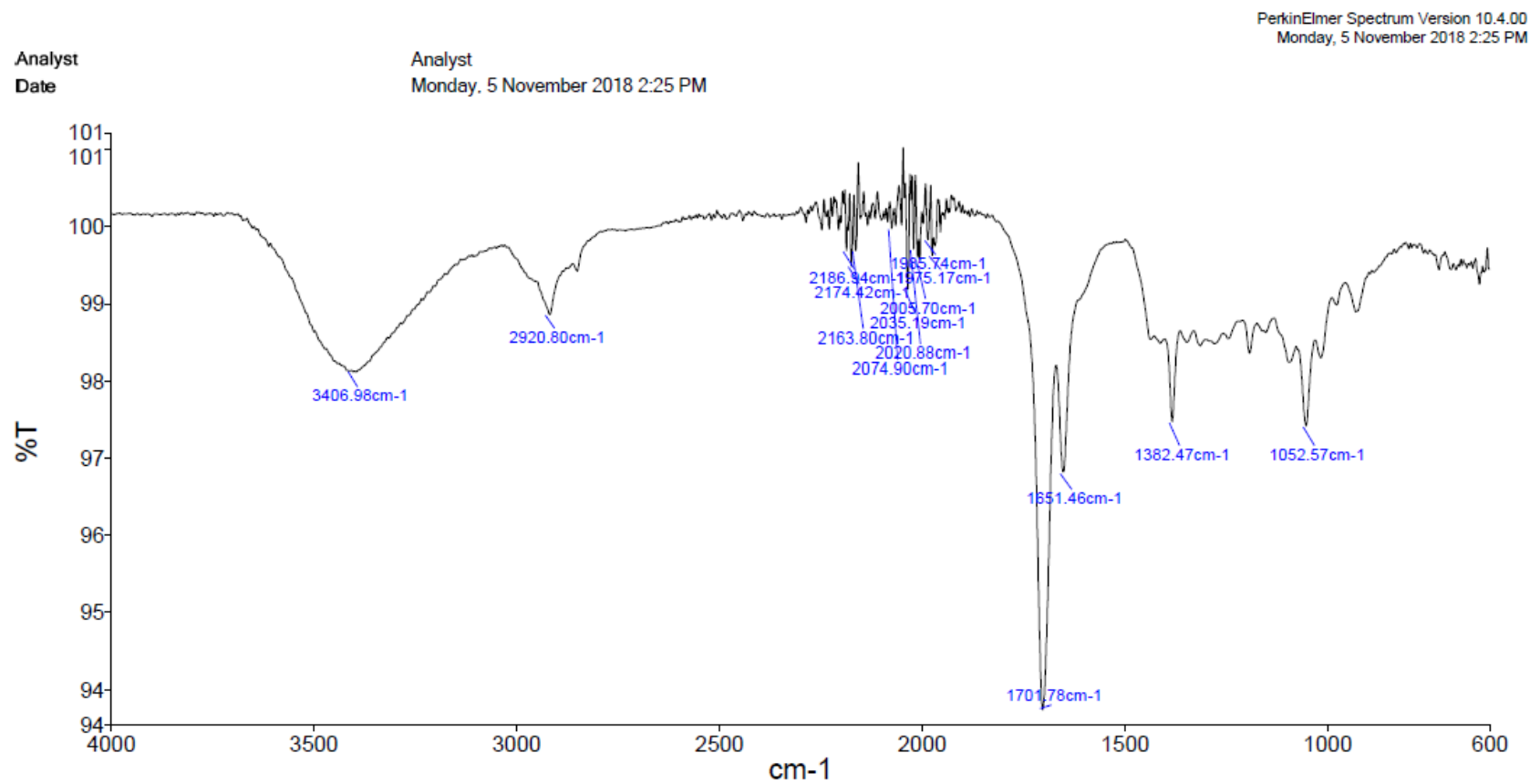
HSQC spectrum 8

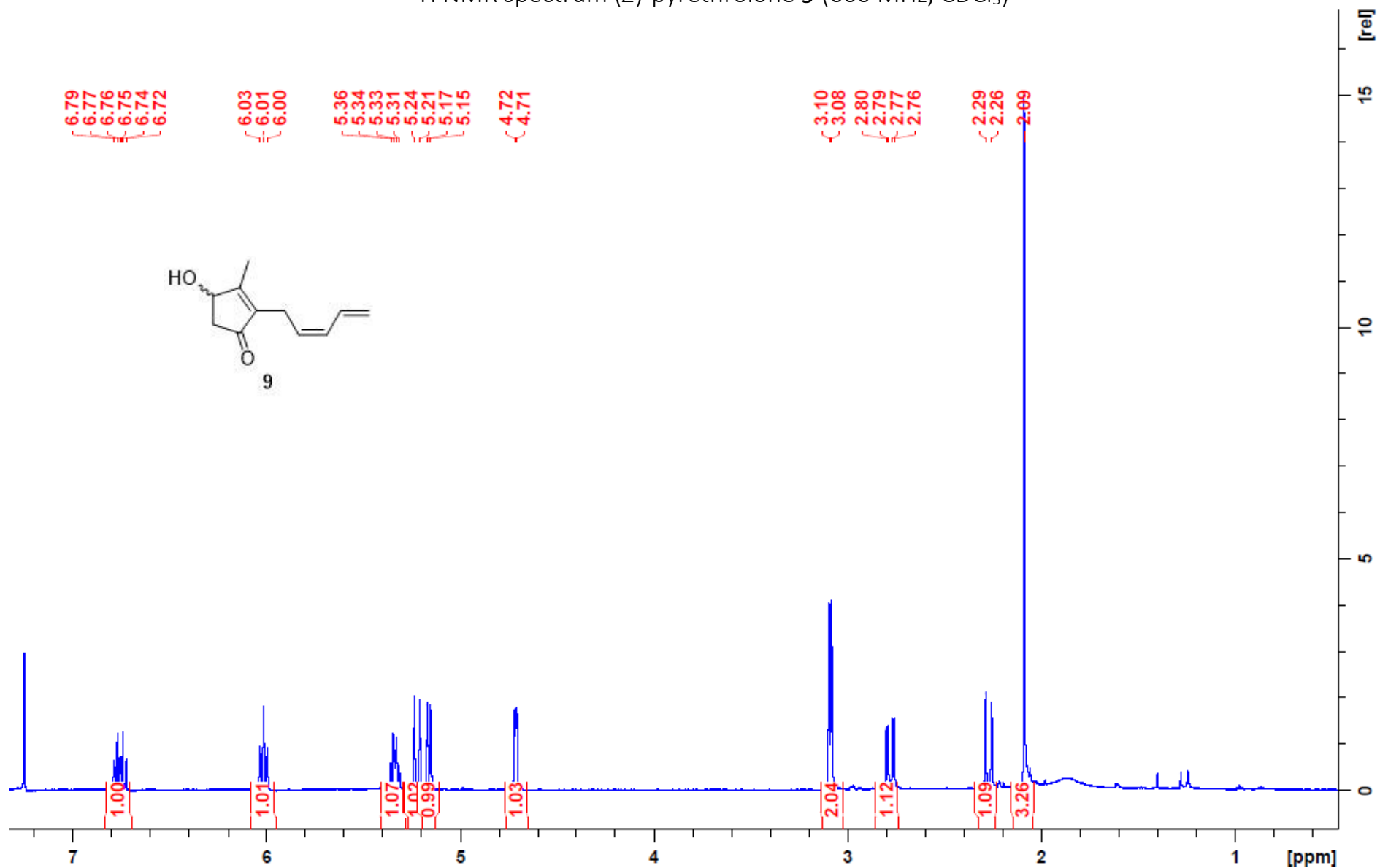


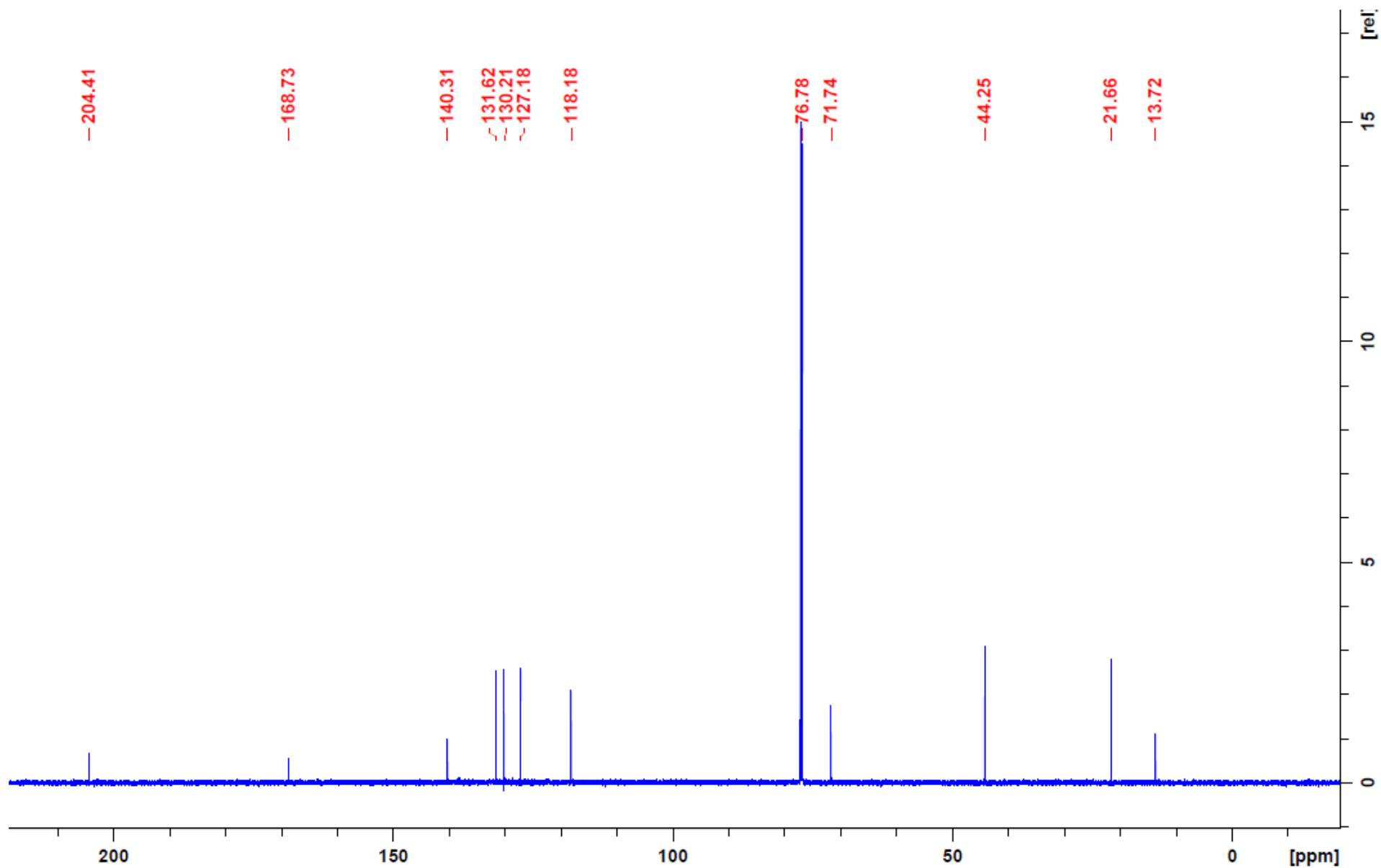
HMBC spectrum 8



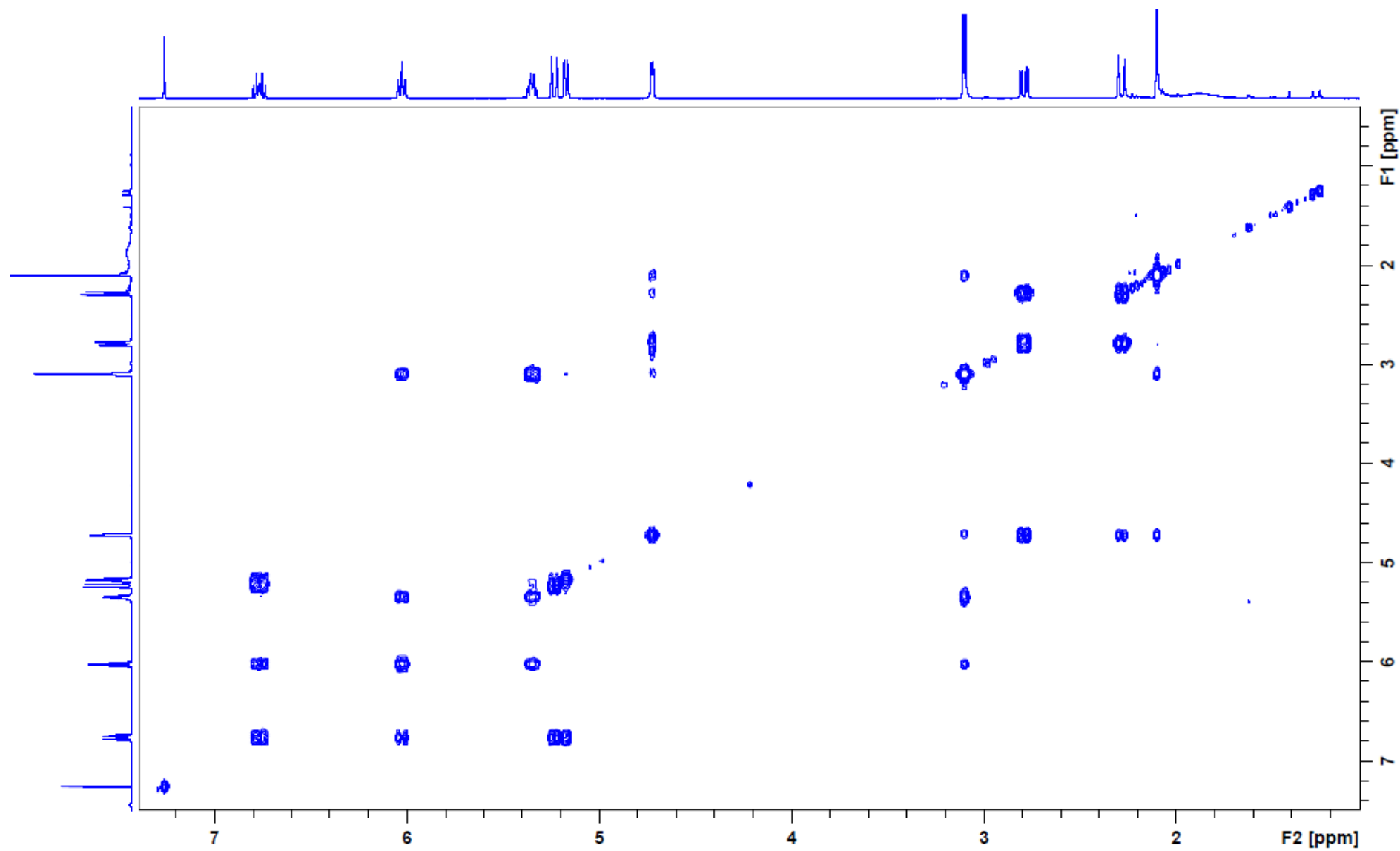
FTIR spectrum 8



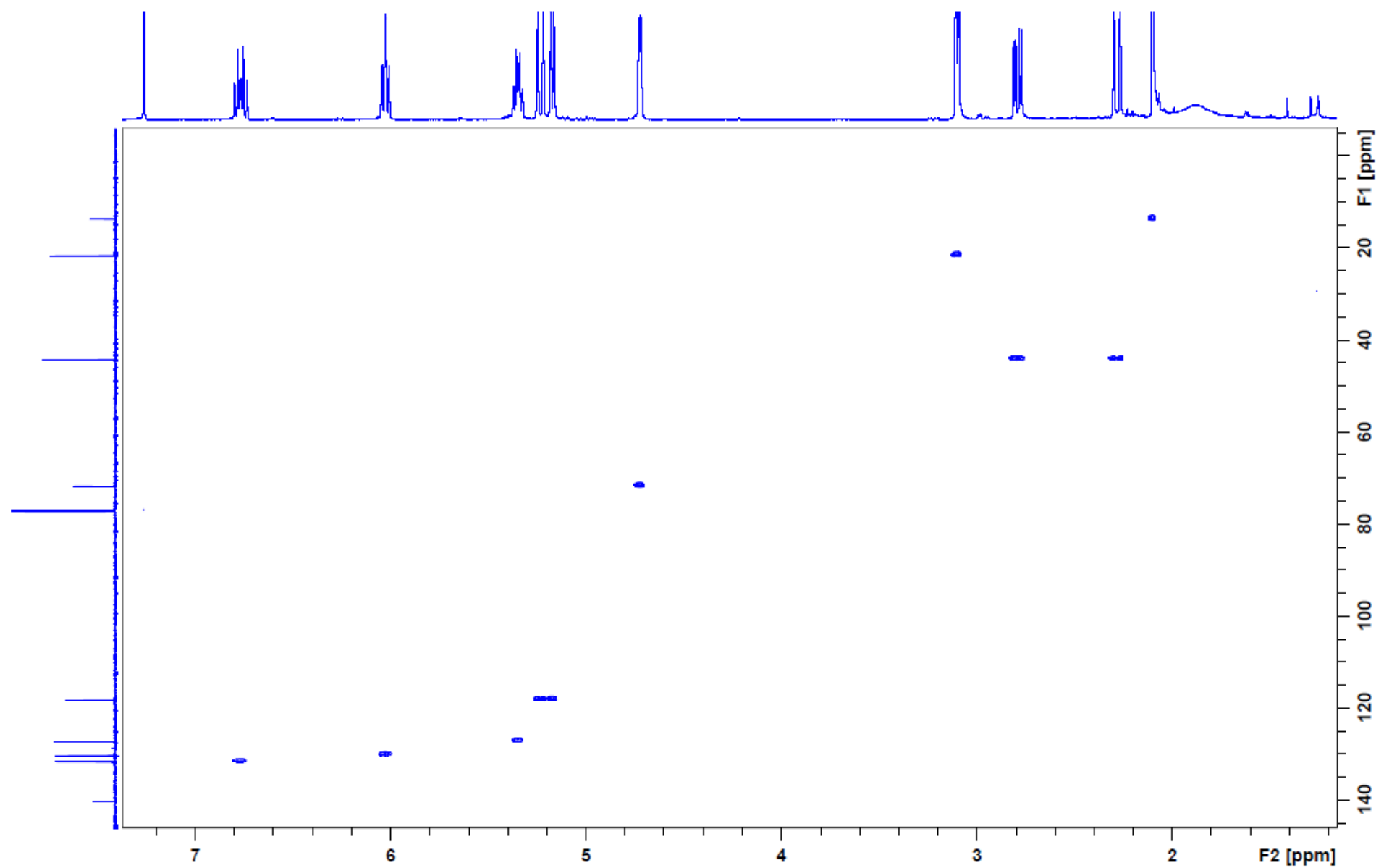
^1H NMR spectrum (Z)-pyrethrolone **9** (600 MHz, CDCl_3)

^{13}C NMR spectrum (Z)-pyrethrolone **9** (150 MHz, CDCl_3)

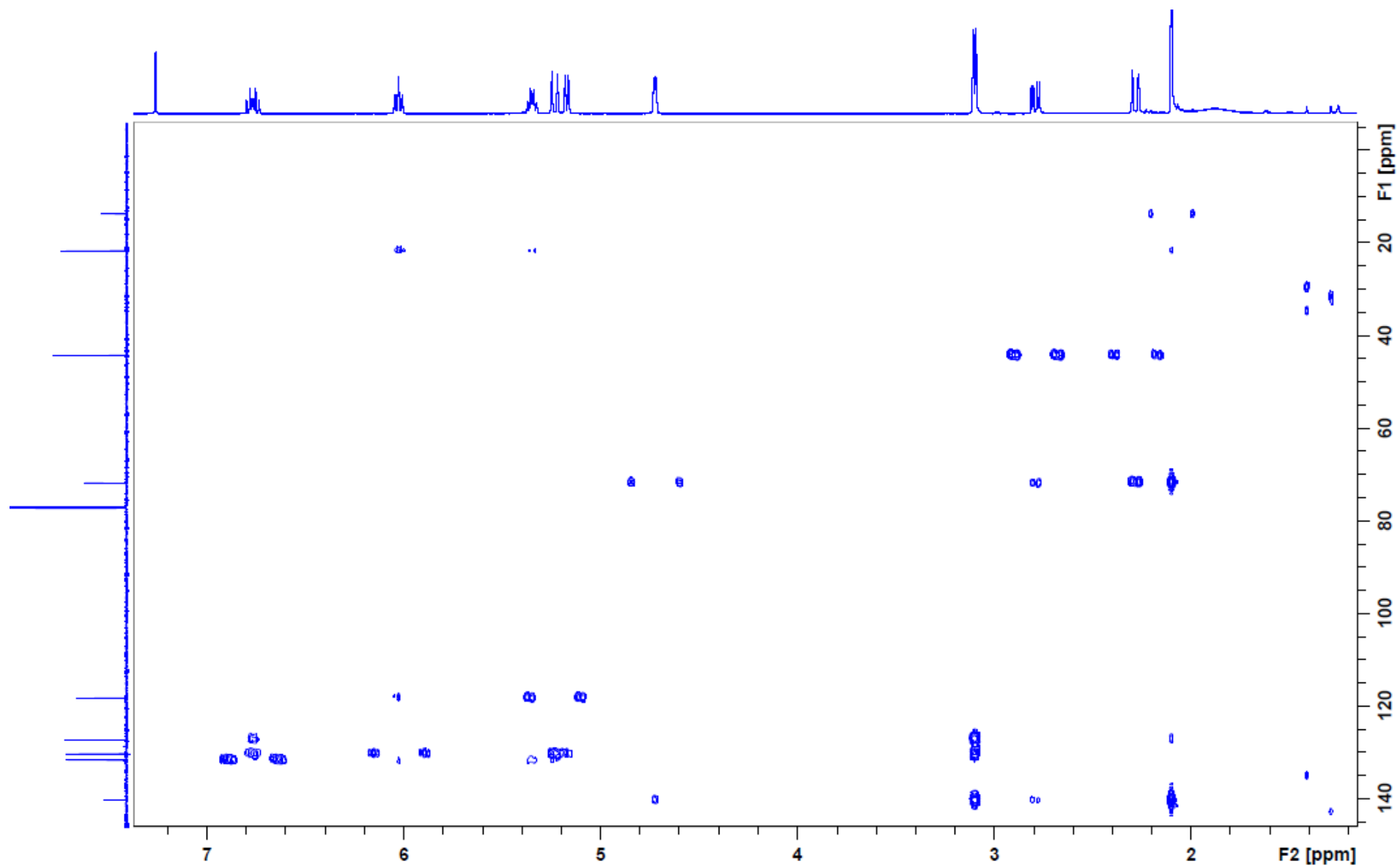
COSY spectrum (Z)-pyrethrolone 9



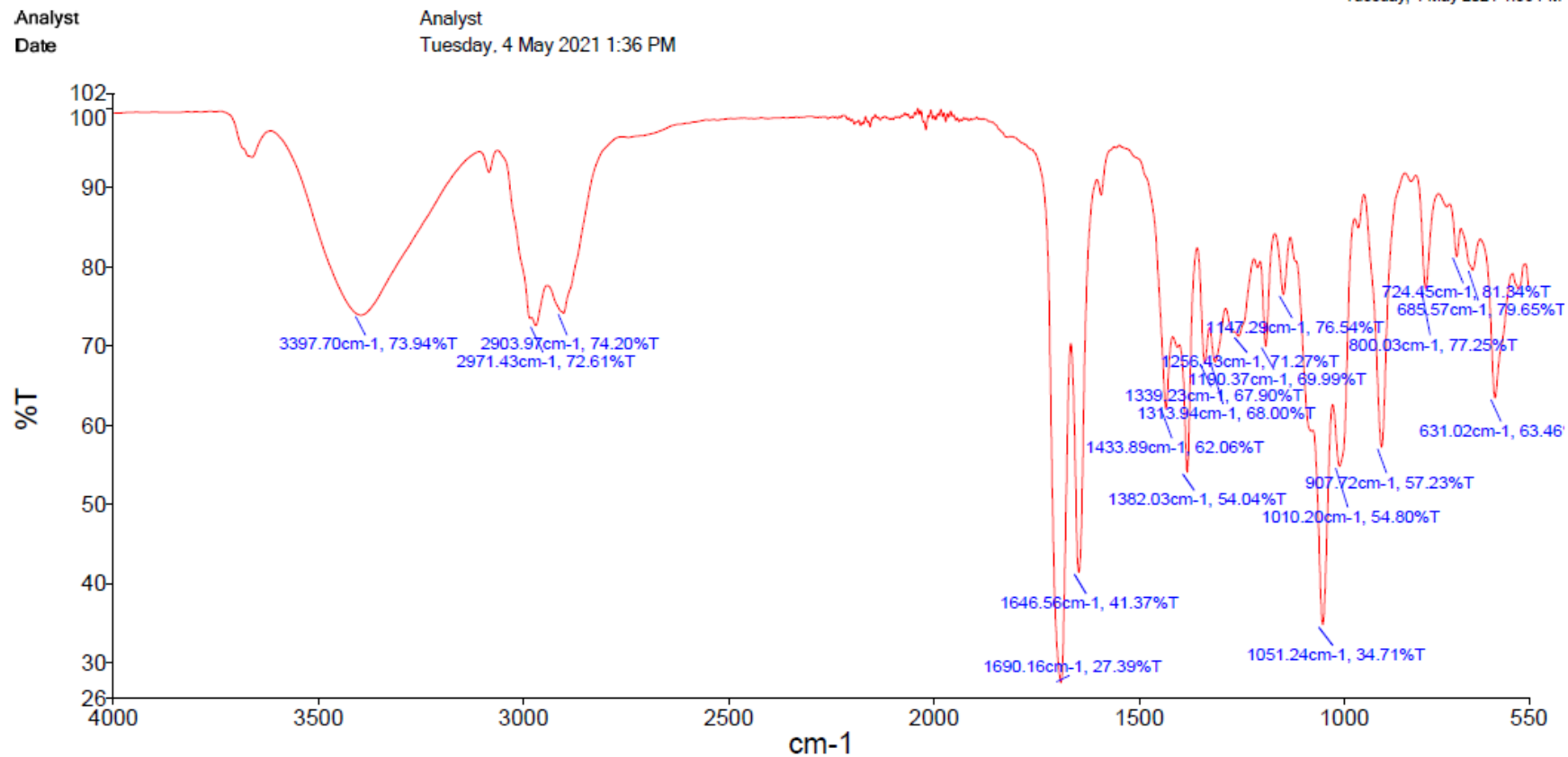
HSQC spectrum (Z)-pyrethrolone 9



HMBC spectrum (Z)-pyrethrolone 9



FTIR spectrum (Z)-pyrethrolone 9

PerkinElmer Spectrum Version 10.4.2
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Homonuclear Decoupling Experiments 9

